TEXTILE BULLETIN

VOLUME XIX

CHARLOTTE, N. C., THURSDAY, JUNE 10, 1920

NUMBER 15



EVERY Textile Mill, small and large, has its problem of intercommunication.

The man who "grows up" with the business does not as a rule, recognize this fact as quickly as the one who comes in "new" on the scene.

The duties of a "good executive" increase every day because his loyalty to his firm creates new activities in their interests. Put into his hands an equipment that will give him complete and constant control of his organization.

Select-O-Phone—Automatic, Interdepartmental Telephone and Man-Finding System places him within FOUR SECONDS of every man in his organization, no matter whether he is on his round of inspection or in his office.

Our Sales Engineer, **now in the South** will gladly explain and demonstrate, the many advantages of the Select-O-Phone Service over that of other telephone systems. He will also make a survey of your mill and submit plans for a system suitable

to your individual requirements. There is no cost or obligation to you for this service.

Screw Machine Products Corporation, Providence, R. I.

I accept your offer for a 10-minute no-obligation demonstration of Select-O-Phone, Automatic Telephone and Call System.

My name is ______Titl



For All Warp Sizing

Address

will make your weaving run BETTER. Needs no other compound, oil

or tallow. Carries the starch into the yarn where it will not shed.

Makes Stronger and Smoother Yarn Which Means More Production From The Looms

CHARLES R. ALLEN MANUFACTURER Charleston, S. C.

A Profitable Investment

Replace old Spindles by Installing

Allen Ball Bearing Twister Spindles

without change of Rail, Bobbin or Drive and obtain;



Greater Production

and

Better Product

Uniform Twist in every Bobbin

Allen Spindle Corporation

80 Boylston St., Boston, Mass.

ELLIOTT A. ALLEN President

Inquiries Solicited



WORKS: NEWARK, N. 1

Since 1876 we have been engaged in serving the needs of dyestuff users.

Our Service Laboratories are ready at all times to match samples for you.

DIRECT ACID CHROME BASIC DEVELOPED COLORS

John Campbell & Co.

75 Hudson Street

New York City

Boston,

Philadelphia,

Providence,

Toronto, Can.



MAKERS OF THE MOST SUCCESSFUL SHAKING GRATE IN THE SOUTH

Write us for information-

McNaughton Manufacturing Company Maryville, Tennessee

Griswold Supply Company

Successors To

Georgia Supply Company

Direct Mill Representatives

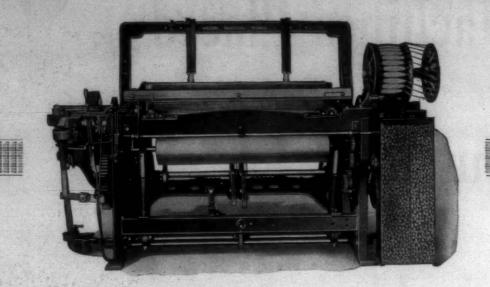
MACON

GEORGIA

Cotton Twine Mill— For Sale!

3500 spindle Twine Mill. consisting of 12 acres land, 8 tenant houses, two-story brick building, two warehouses, engine and boiler rooms, dye plant. Mill now in operation. Write or wire for detail specifications. Being offered at an attractive price to close up an estate.

The Jones Machinery Corporation Atlanta Ga.



MASON Automatic Looms

WITH BATTERY, WARP STOP MOTION, FEELER AND SHUTTLE LOCK

(Randolph Crompton's Patents)

Fewer Parts Standard Construction

Rebounding Shuttles Overcome Damage to Shuttles and Bobbins Reduced

Mason Machine Works

TAUNTON, MASS.

E. HOWARD, Southern Agent, GREENVILLE, S. C.

96 Machines Placed

In Southern

Mills in 11

Months



narch Cotton Mills, Union, S. C	2	machine
gle & Phenix Mills, Columbia, S. C	4	machine
cadia Mills, Spartanburg, S. C	1	machine
iquola Mfg. Co., Honea Path, S. C	1	machine
Cotton Mills, Anderson, S. C	1	machine

ictor-Monaghan Mills:						
Greer Plant, Greer, S. C						
Victor Plant, Greer, S. C						
Ottaray Plant, Union, S. C						
Jonesville Plant, Jonesville		S.	C.			
Apalache Plant, Greer, S. C.	·					
Seneca Plant, Seneca, S. C						4
Monaghan Plant, Greenville	3,	S.	C	. *		
Walhalla Plant, Walhalla, S.	. (3				

Coosa Manufacturing Co., Pledmont, Ala
Inman Mills, Inman, S. C
Griffin Mfg. Co., Griffin, Ga
Lanett Cotton Mills, West Point, Ga
Hartsville Cotton Mills, Hartsville, S. C
Greenwood Cotton Mills, Greenwod, S. C.
Pacific Mills, Columbia, S. C
Grendel Mills No. 2, Greenwood, S. C
Lane Cotton Mills, New Orleans, La
Belton Mills, Belton, S. C
Marion Manufacturing Co., Marion, S. C
Dallas Manufacturing Co., Huntsville, Ala.
South Texas Cotton Mills, Brenham, Texas
Pelzer Mfg. Co., Pelzer, S. C
Saxon Mills, Spartanburg, S. C
Louisville Cotton Mills, Louisville, Ky
Springstein Mills, Chester, S. C
Itasca Cotton Mills Co., Itasca, Texas
Rosemary Mfg. Co., Roanoke Rapids, N. C.

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Woodside Mills, Greenville, S. C
Dunean Mills, Greenville, S. C
Lockhart Mills, Lockhart, S. C
Henrietta Mills, Caroleen, N. C
Easley Cotton Mills, Easley, S. C
Dixie Cotton Mills, LaGrange, Ga
Thatcher Spinning Co., Chattanooga, Tenn
Dillon Mills, Dillon, S. C
Brookford Mills, Brookford, N. C
Aragon Cotton Mills, Aragon, Ga
Tucapau Mills, Tucapau, S. C
Chadwick-Hoskins Co., Charlotte, N. C
Darlington Mfg. Co., Darlington, S. C
The Trion Co., Trion, Ga
The Virginia Cotton Mills, Graham, N. C.
Edna Cotton Mills, Reidsville, N. C
Wearwell Mills, Draper, N. C
The Borden Mfg. Co., Goldsboro, N. C
Unity Spinning Mills, LaGrange, Georgia
Lancaster Sotton Mills, Lancaster, S. C.
Wamsutta Mills, New Bedford, Mass
Warren Mfg. Co., Warrenville, S. C.
John P. King Mfg. Co., Augusta, Ga
Meritas Mills, Columbus, Ga.
Mobile Cotton Mills, Mobile, Ala.
McComb Cotton Mills, McComb, Miss.
Selmo Cotton Mills, Slma, N. C.
The Grendel Mills No. 1, Greenwood, S. C
Knoxville Cotton Mills, Knoxville, Tenn.

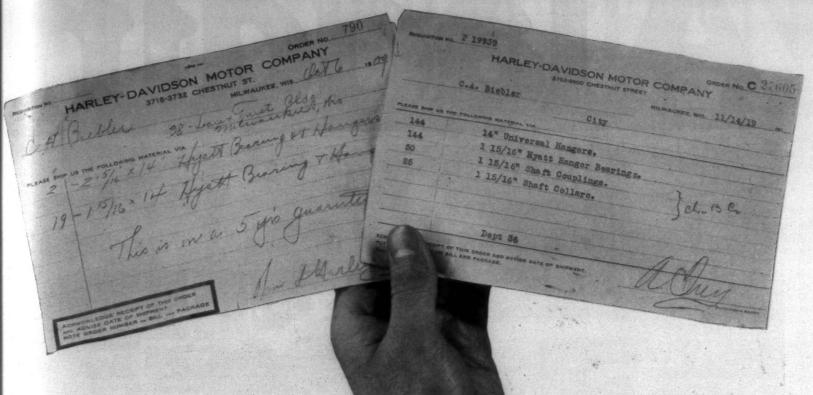
Mills Mill, Greenville, S. C	1 machine
Brandon Mills, Greenville, S. C	1 machine
Woodside Mills, Greenville, S. C	1 machine
Dunean Mills, Greenville, S. C	1 machine
Lockhart Mills, Lockhart, S. C	2 machines
Henrietta Mills, Caroleen, N. C	1 machine
Easley Cotton Mills, Easley, S. C	2 machines
Dixie Cotton Mills, LaGrange, Ga	1 machine
Thatcher Spinning Co., Chattanooga, Tenn	1 machine
Dillon Mills, Dillon, S. C	1 machine
Brookford Mills, Brookford, N. C	1 machine
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Wearwell Mills, Draper, N. C	1 machine
The Borden Mfg. Co., Goldsboro, N. C	2 machines
Unity Spinning Mills, LaGrange, Georgia	1 machine
Lancaster Sotton Mills, Lancaster, S. C.	2 machines
Wamsutta Mills, New Bedford, Mass	1 machine
Warren Mfg. Co., Warrenville, S. C.	1 machine
John P. King Mfg. Co, Augusta, Ga	2 machines
Meritas Mills, Columbus, Ga	1 machine
Mobile Cotton Mills, Mobile, Ala	1 machine
McComb Cotton Mills, McComb, Miss.	1 machine
Selmo Cotton Mills, Slma, N. C.	1 machine
The Grendel Mills No. 1, Greenwood, S. C	1 machine
Knoxville Cotton Mills, Knoxville, Tenn	1 machine
Blue Buckle Cotton Mills, Rock Hills, S. C	1 machine
Arcade Cotton Mills, Rock Hill, S. C.	1 machine
Pacifice Mills, Columbia, S. C.	5 machines

WRITE FOR PARTICULARS

Monarch Bobbin Cleaner Co.

Union, South Carolina

NO GUARANTEE REQUIRED FOR STANDARDIZED TRANSMISSION EQUIPMENT

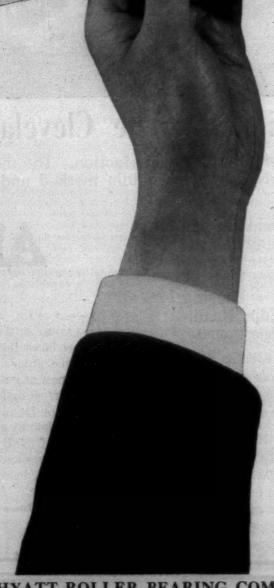


On October 6, 1909, when Hyatt Roller Bearing Hangers were not so well known, it was necessary to make a five year guarantee in order to obtain an order for Hyatt Roller Bearing Hangers from the Harley-Davidson Company.

But, on November 14, 1919, when Hyatt Roller Bearing Hangers had become widely known for their durability and dependability, there was no mention of a guarantee on a speat order from this company.

Because of the ten years of reliable, economical operation received from their first Hyatt Roller Bearing Hangers, the

MOTOR BEARINGS DIVISION
DETROIT, MICHIGAN



HYATT ROLLER BEARING COMPANY INDUSTRIAL BEARINGS DIVISION NEW YORK, N. Y. Harley-Davidson Motor Company looks upon them as a product which needs no guarantee. Hyatt Roller Bearing Hangers stand on their own merits—savings in power and lubrication costs, their positive self-oiling feature and their length of life (29 years in some plants). These merits make Hyatt Roller Bearing Hangers—standardized transmission equipment.

Transmission engineers who specify Hyatt Roller Bearing Hangers can make sure of this same reliable, economical operation. Write for our bulletin No. 125 and investigate the many advantages of Hya' Roller Bearing Hangers.

TRACTOR BEARINGS DIVISION CHICAGO, ILLINOIS

Hyatt Bearings For Line Shafts

Aladin



"Excellent Satisfaction" - The Cleveland-Cliffs Iron Co.

Aladdin Readi-Cut Houses universally gives satisfaction. The most difficult industrial housing problem can be simplified and solved by the Aladdin method and without the slightest slip or hitch.

It is customary in the Logan Field for the mining company to furnish housing for the employees. Therefore at the Ethel Mines, the Cleveland-Cliffs Iron Company had the usual precedent to follow. Their housing problems were solved with Aladdin Readi-Cut Houses, regarding which they write,

"We shall be pleased to have you use our name as reference, as the houses which we have already purchased from you have given us very excellent satisfaction." As our operations expand more houses will be necessary."

This is but one of the many instances where the Aladdin service has solved the housing problem. Better houses, lower in price, more quickly erected, these are the expressions of satisfaction we hear from every customer.

laddin

Aladdin -

—expedites your building project— —houses your men well and quickly—

-saves 18% of the cost of lumber-

-saves 30% of the labor cost-

reduces the skilled labor required—guarantees complete shipment of material—

—guarantees the quality—

—carries material for 1,000 houses in stock—

-ships from the nearest timber region-

—quotes definite prices on any order from one house up to a city of 3,000, including churches, schools, offices, water and sewage systems, electric plants, street and house lights, heating plants, street parks, trees, lawns, etc., complete.

Write, Wire or Phone for Aladdin Catalogue No. 1840

Offices and Mills at

Bay City, Michigan Wilmington, North Carolina Hattlesburg, Mississippi Portland, Oregon Toronto, Canada



Industrial Housing

SOUTHERN EXTILE BULLETI

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VOL. XIX.

CHARLOTTE, N. C., THURSDAY, JUNE 10, 1920

NUMBER 15

Modern Knitting Mill Design

An address before recent convention of National Association of Hosiery and Underwear Manufacturers at Philadelphia, by Gen. W. H. Rose,
District Manager Lockwood, Greene & Co., Engineers, 101 Park Avenue, New York, N. Y.)

All industry becomes more exact- owner. ing as it develops. Among other things, it requires better plants than were formerly found necessary. In no other industry has this need for knit goods plants. The advantages better plants been more pronounced than in the knit goods industry. The public demands a better article than it did in past years, and factories must be designed to meet the demand for better goods in larger quantities.

A modern knitting mill should be thought out in advance, before any actual construction begins or machinery is purchased. Before the land is bought for a new plant, if practicable, outlines of departments and buildings should be made, and machinery layouts determined, to insure economical routing and hand-

ling of materials.

is important that the buildings should lie on the ground correctly, at a proper elevation, with best arrangements for drainage, railway sidings, light, etc. It seems almost trite to mention those and many of he things I shall say this morning, yet in a large number of plants such considerations have evidently been ignored. Very frequently a mill executive will buy his land first, sometimes order his machinery, and occasionally even build his building without first thinking his scheme through to the end.

In addition to the studies of laypreviously mentioned, a modknitting mill must be planned particular attention to light, natural and artificial. Good with particular attention hting is demanded by operators, pays from an operating stand-Improvement in lamps and ribution of light are among the able developments in engineering

he past few years.

modern plant should be ade-ely equipped against fire loss. Il should be structrally modern, rigid and strong, with wide column spacing, high ceiling and sufficient exits. Care must be given to seni exits. Care must be given to sani-tation and to the comfort of employees. The time is past when operatives can be crowded into badly lighted, poorly ventilated rooms. The modern knitting mill is bright, attractive, clean. A little attention and often very slight adgeneral appearance which not only general appearance which not only ditional expense, will give a pleasing aftracts help and is good publicity, but is a genuine delight to the

of this type of construction are almost too well-known to require mentioning here. Among these advantages, of course, are more permanent construction, smaller maintenance charges, lower insurance increased daylight, stiffness and rigidity, which carries with it the possibilities of placing heavy machinery and even a dye house on upper floors. There is al-so a marked tendency at the present time to go to the use of much wider buildings than were formerly thought possible.

Knitting mills constructed a few years ago were thought to be as wide as practical when constructed in widths of fifty to sixty feet. Mod-ern knitting mills, however, are readily constructed with widths of eighty-five, ninety, and even one hundred feet, and by the use of thoroughly modern methods, are made even lighter at the center, for the use of machinery, than was the case of the narrow mills which were formerly used.

In the construction of mills for the manufacture of full-fashioned hosiery, the earlier mills were usually built of slow-burning or mill construction and were usually constructed of a width suitable to take one row of machinery set crosswise of the building, giving an over-all width of forty-two to forty-five feet. Also in these earlier mills, on account of heavy machinery and the vibration from it, the usual arrangement was to put these machines in the lower stories. Modern methods of construction make it easily pos-sible to construct these mills of sufficient width to take a double row of machines, which require an over-all width of eighty-five to ninety feet. The use of concrete construction with its added stiffness makes it possible to consider the placing of fullfashioned hosiery machinery on the fifth, sixth or seventh floors, as the occasion may require, without particular regard for the question of

The use of concrete has also made it possible to consider in many cases what seems to be a logical provision for the location of the

vibration.

very recently this has not been considered a practical thing in a mill constructed building, although have known of an instance where a dye house was installed on the fourth floor of a mill constructed building, with subsequent processes located in the lower floors. In this case the joints of the floor were caulked in very much the same manner as the seams of a boat. would not recommend this geenral method, however, as a regular practice, to place the dye house in the upper floor in a mill constructed building, but in concrete this not only becomes relatively simple but also for reasons of arrangement and routing becomes a desirable thing to

In the manufacture of hosiery and underwear, as in most other lines today, manufacturers are becoming alive to the possibilities of improved production through most careful study and proper consideration of their problem before new building layouts are made and studied, and while it is not uncommon today for new knitting mills to be entirely laid out in every detail with all departments and machines located before construction is started, this is a situation which has come up very recently and would not have been thought necessary a few years ago.

Today the manufacturer who would erect a building without a very definite idea of how he would use each and every floor, and where the departments would be located, be considered lacking would foresight.

Routing and Relative Arrangements of Departments.

There is nothing particularly complicated about the arrangement of departments in a knitting mill, and, given a complete new plant to consider, it becomes a very simple mat-ter to arrange departments properly and to have the routing so that the minimum amount of traveling will be required for the goods. When, however, the problem, as is more often the case, becomes one of extending an old plant and enlarging all the departments, with some to be located in a new building and some to remain in the old building, then the situation requires much more careful study, and it is in these cases that the proper amount dye house or washing and bleaching of study will promise the greatest

d partment on the top floor. Until possible return on such an investment of time given to making preliminary playouts.

Most knit goods plants start manufacturing processes with the delivpry of the yarn to the winding and knitting departments. In a few in-stances, which are, however, in the minority, knitting plants have their own yarn mills. In these cases, however, they are usually located in separate buildings and so the layout of the knitting mill in these cases becomes almost exactly the same kind of problem as when the

manufacturer buys his yarn.

The work of the average knitting mill leaves off when the finished goods are loaded out of the shipfinished ping room, and therefore it is easy to see that the arrangement of an ideal knitting plant would be one in which the yarn on receipt at the plant would be taken to the top floor for winding and knitting and then carried on through the subsequent processes, traveling down from floor to floor in its progress traveling down through the mill, and finally tanding on the ground floor, where finished goods, storage, packing and shipping could be located. Several modern knitting mills have been laid out on this basis and a good example of such a mill is the underwear mill of the Black Cat Textile Company, at Bennington, Vt.

As the work of the dye house in the knitting mill usually follows closely after the knitting processes and is followed by many finishing processes, it will be seen that the arrangement above referred to will necessarily bring the dye house to or near the top of the mill, and if the mill is properly constructed of reinforced concrete, this becomes easily possible and will be discuss-ed further under detailed requirements for dye houses.

The machinery used in knitting mills is in the form of relatively small light machines which are capable of arrangement in almost any kind of space, but here again it is of advantage to study the proper column speing, so that the layouts may be made in the several departments with minimum interference of columns and maximum economy of arrangement. Generally speaking, it will be found proper to locate practically all the machines in rows running crosswise of the mill. (Continued on Page 31.)

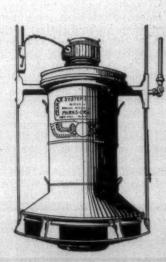


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Our particular aim is not to sell humidifiers, but HUMIDIFICATION

There's a big difference

It's been a comparatively easy matter to sell humidifiers. Mysterious looking contrivances could be stuck up in a more or less haphazard way at different points in the room. That conditions were improved in some cases was due, not to any inherent efficiency in the systems themselves, but to the desperate need for moisture in the atmosphere in the rooms where they were placed.



Parks-Cramer High Duty Humidifiers. Most capacity per dollar of investment Every Parks-Cramer installation is scientific. The guesswork of old humidifier practice has given way to KNOWLEDGE. It is now possible to get exactly the humidification required, regardless of the time of day—or year, the location of the mill, the peculiarities of construction or what not

Many a mill man who has replaced his old "rule-o'-thumb" system with a Parks-Cramer system has been astounded at the results.

Parks-Cramer Company

Engineers & Contractors
Industrial Piping and Air Conditioning
Fitchburg Boston Charlotte



Parks-Cramer Automatic Humidity Regulator, the regulator that makes modern humidifiers your partner. Classins Issue Statement on Merchandise Scarcity—Not Hopeful for Lower Prices.

"We believe the banks are taking a prudent course in curtailment of

The scarcity of desirable merchandise is emphasized in a letter sent out by Claffin's, Incorporated, intimating very clearly that prosets did not make them very hopeful for lower prices. Considerable ss is laid on the comment regarding the goods scarcity, and evory effort has apparently been made Government, through its banking in indicate that there is no immediate likelihood of relief in this respect. "The supply of goods is very much under a normal demand, and the limited supply is not being in-creased." Classin's, Incorporated, go further and take steps to make sure that the reader does not feel they have exaggerated this statement—that it is not the result of hearsay. The statement by Classin's, Incorporated, follows:

"In the matter of merchandise from this house, we take this occasion to restate our policy with our retail friends, i. e., that your orderwill be filled and shipped at the lowest price prevailing with us on the date of shipment. The price on evitem will be gone over carefully, and if there is a lower price on it, you will get the benefit.

ment on department store drives, strikes, embargoes, high interest rates, etc., do not increase produc-tion. The condition of your stock and our own confirms the fact that there is no menacing accumulation of merchandise in regular ehan-

credit to those who have speculated in merchandise at the expense and to the great injury of their customers, and more particularly in curbing those irregular and irresponsible factors who have come into trade in the past few years of rising prices and great financial strain.

system, will become a party to denying legitimate credit to established concerns doing business with reputable houses that have not speculated. The process of credit restriction we are now witnessing is similar to the one every experienced merchant has applied to his merchandise stocks ever since it became apparent that abnormally high costs production could not be controlled.

his own community against chievous agitation and to stand forward for just dealings in business.

"Before entering upon a new season, it is customary to look for some readjustment, some leveling of prices. At this time, we cannot see any signs of accumulations of prod-"Our own view of the immediate ucts in mill centers of mill agen-business situation is that wide com- cies. Any adjustment made on any basis other than supply and demand will not be lasting, and efforts to circumvent this old business law cannot be wholesome.

"Most of the merchandise, sold by us for fall was distributed on an al-

could do in markets at home and abroad, we were forced to be content with what we considered meager assortments for customers' requirements. Mills cannot give us additional goods now, and will not take new orders for delivery within reasonable time. They are sold far ahead on dependable staple mer-We have hoped, as you chandise. have hoped, that there would be some substantial price changes. If any are made before the summer is over, we are not yet able to see whence we can count upon more goods.

"Goods are scarce on account of reduced production, and the best information we can get leads us to believe that the conditions will continue for the balance of this year. In expressing our belief in this esti-"It is a time for the conservative mate of conditions as they now ap-merchant to become a bulwark in pear we need only say that we have been trying constantly to buy any goods of our kind that are offered, and that we are constantly driving at the mills to hasten along goods that are due us.

"Being on the ground here in this great center of finance, merchandising and trade, and being constantly mindful of the dangers that lie in attaching too much importance to cursory and mercurial opinions of trade advanced in interviews and elsewhere, we wish to say that acand jobbing houses are ridiculousand that we are now on the lotment basis. We could not avoid threshold of the season when pro-

this. We could have sold a great duction runs light because of factory many more goods than we did, but workers' vacations. The supply of could not get them. Despite all we goods is very much under a normal demand, and the limited supply is not being increased."—Daily news

Storage of Coal.
Tests conducted by the Bureau of Mines lead to the following conclusions regarding the storage of any bituminous coal:

1. Piles not to be over 12 feet deep, and no part of the interior to be over 10 feet from the surface.

Store only screened lump coal if possible.

3. Keep out dust as much as possible, and to do this avoid handling.

Have lump and fine evenly distributed. Do not let lumps roll to the bottom and form air passages

Rehandle the screenings after two months, if possible.

Store away from any sources of even moderate heat and well away from the main buildings of the plant; never against a frame build-

Allow six weeks seasoning after mining before putting into storage piles

Avoid alternate wetting and

drying.

Avoid admission of air to the interior of the pile through inter-stices around timbers, irregular irregular brickwork or a porous bottom, such as coarse cinders

10. If wet coal is received, dump tual yardage's of goods in mill hands in small piles around the edges, and jobbing houses are ridiculous- where air can get to it freely to carry away moisture, and where other coal will not be packed on top of it.

For BETTER CONSTRUCTION and BIGGER PRODUCTION Use

Staley's Textile Starches

Natural or Modified

Each Grade of Starch is Separately Prepared to Meet Your Particular Operating Requirements in

Sizing and Finishing

YOUR ORDER is OUR OPPORTUNITY for INTELLIGENT SERVICE and MUTUAL BUSINESS GROWTH

We Are Serving Others, May We Serve You?

A. E. Staley Manufacturing Company Decatur. Illinois

New System of Heating for Cotton Mills

Building superintendents heating engineers will be interested in this new piping layout for a heating system which provided a Closed Loop circuit, whereby the water of condensation from the radiators is returned directly into the boiler. The radiators are kept free from air and water and the system will work satisfactorily on any pressure. to say, high, low or variable pressure and provides an ideal heating condition at all times.

This system which has been per-fected by the Farnsworth Company, Conshohocken, Penna., is possible by reason of the chief features of the Duplex Boiler Feeder which permits a continuous flow of condensation into the boiler. The condensation is held under pressure and de-livered into the boiler at a tempera-ture only one or two degrees below the temperature of the steam, corresponding to the pressure carried on the heating system, and these results are obtained without the use of a Receiving Tank. There are no vents open to the atmosphere and practically no heat loss.

When the high pressure from the boiler is carried to the top of the building steam passes through a reducing valve and then the risers drop from the main line to supply the various coils. The hangers supporting the coils are so arranged to give free expansion and contraction of the riser from the

coil.

The return line of the coil is carried back into the riser with a drop of 9 inches before entering the riser with a check valve. By this static head of 9 inches all water between the check valve and the lowest pipe of the coil is sufficient to lift the check valve and permit the condensation to the coil to flow back into the same steam riser.

A full size pipe is carried from the return pipe of the coil to somewhere near the top of the coil where an automatic air valve is inserted. This full size pipe provides a sort of an air chamber and eliminates the possibility of any water squirting out of the air valve which is so very often experienced where coils are used.

To make this job work properly the proper distribution of steam supply pipes to the coils and the proper size of risers should be used. In other words, it is advisable to use about the same proportions in piping these coils as would be used on the common one pipe radiator or

GHECK VALVE EITHER is located somewhere above the water line of the boilers. This Boiler

For illustration, if one pound is
Feeder has two charts. Feeder two chambers, one has

chamber is always equalized with the return line receiving the condensation, while the opposite chamber is equalized with the boiler delivering the water into the boiler. 50 lbs. about 300, and so on up. This These chambers alternately fill and type of system will circulate freely empty which provides a continuous on atmospheric pressure or any The return pipe from all of the empty which provides a continuous worth Duplex Boiler Feeder which above risers is carried into a Farns-

flow of water from the heating system directly into the boilers.

There are many advantages in this type of system. Less piping because no return lines are necessary other than to connect the risers to the Boiler Feeder. The Boil-er Feeder will feed the condensation into the boiler at the same temperature that it leaves the system. In other words, the condensation

carried on the system the water would be fed into the boiler at 212 degrees, if 5 lbs. was carried on the system it would be about 225 degrees, and if 10 lbs. about 240 and if 50 lbs. about 300, and so on up. This pressure that may be desired.

This coil system is in use in some of the largest factories for heating purposes in this country. To have a perfect job it is only necessary to carry out the proper size pipe, give the pipes the proper pitch and set the coils level. The Boiler Feeder will feed the condensation into the front of the boiler or the rear, or, feed it in both ways. There is an advantage in feeding the water into the boilers both ways because if just a little water is going in through the blow off connection it prevents the possibility of the blow off connection closing up with sediment.

The writer in his travels noticed in a number of the big plans that a small feed line is carried into the blow off so that a small portion of the water is going into the blow of connections and it is claimed that they keep the blow off lines free.

Hundreds of large plants are feed-ing all of the water into boilers through the blow off connections as a great many engineers believe that (Continued on Page 34.)

IF ITS A TOOL WE'VE GOT IT

PASCO TOOL COMPANY

SMALL TOOLS AND SHOP SUPPLIES

10 North Broad Street

ATLANTA, GA.

LARGEST EXCLUSIVE TOOL STORE IN THE SOUTH

of Desirable Merchandise in Cottons

The Chicago Tribune prints the following interview with John V. Farwell, in which the shortage of Farwell, rehandise is again featured:

What is the outlook in prices?" John V. Farwell was asked yester-

"Let me give you an ocular dem-onstration," he replied, as he led the way up to the counting room of his establishment to the second floor, where he called a department man-

"Got any wide sheetings or bed sheets?" he asked.

Hardly any," was the reply, "Just few odd widths."
"Any percales?" he asked.

About five piece How many should you have now?" Two hundred cases or more

Up on the third floor he asked: Any ginghams?

"Here are about 65 cases going on sale in June," the manager said. "How many should you have?"

Three or four hundred.' What is the trouble?'

'Can't get anything from the

Mr. Farwell called for a photo-graph of the storerooms of the Evrett Mills, one of the greatest gingham manufacturers in the country, showing rows and rows of empty tables which should be stocked. The mill representative had shown it in proof that he could not fill orders.

"That's the situation in a nut- "you think that there is shell," said Mr. Farwell. "We have of a reduction in prices?

John V. Farwell Discusses Shortage the lowest stock of domestic cotton we have had in years. We should have \$200,000 or \$300,000 percales in stock. We can't get them. The mills can't make them fast enough.

"The question is how is the retail merchant going to do a safe business and help credit conditions by cutting his price on these goods now? How can he replace them? It can't be done. In such necessities it is economically unsound to give a general price reduction, such goods cannot be replaced for some time."

"I think this wave of 20 per cent and 30 per cent price slashing about over.

"It was started as an advertisement feature. It is unsound. The Chicago merchants of the better class are not doing this. They are good merchants and know that it should not be done. What they should do, and are doing, is to hold seasonable clearance sales, getting stuff out of the way that moves slowly at this time of the year, odd lots, changes in styles, etc.

"It is better for a merchant to cut 50 per cent on certain kinds of goods to get them out of the way and permit him to restock with the things that are in demand.

"Take rugs. We cannot get them. In woolen goods for fall we have alcontract and have sold them for future delivery, but they are coming forward slowly."

Then, in general, he was asked, "you think that there is no chance

"In the things of which I have Arkwright models. Some of the maspoken the mills state emphatically chinery which was made from his there will be no reduction in prices. Retailers cannot replace such goods at all just now. They have bought standard goods for fall delivery at lower prices than prevail now.

"In silks there has been a reduction. That is the only item I can think of. That was due to an in-flated price built up by speculation in Japan. But that does not help much. The people do not have to worry about silk shirts. I never wore one in my life, but cotton and cotton goods are another matter. all want them.

"Of course, it is impossible to say what will happen to fancy goods and luxuries. I have given you the sit-uation in the staple necessities in dry goods.

"Old Slater Mill" Will Become Textile Museum.

Pawtucket, R. I., June 2.—The "Old Slater Mill," the birthplace of the cotton textile industry in America. is to be preserved as a show place and a museum for textile machinery. A committee of manufacturers has taken title to the property and later will turn it over to the city or to a permanent memorial association.

The mill was erected in 1793 and ready done the largest business in in it Samuel Slater started the man-our history. We have the goods on ufacture of cotton fabrics. No plans for cotton manufacturing machinery were allowed at the time to be sent out of England, but Slater carried the plans in his mind and when he work out almost exactly the famous

chinery which was made from his plans and used in the old mill is still in existence and will be exhibited in the museum.

The haircloth industry in America also had its beginning in the Slater Mill. In 1855 a number of Pawtucket men began the manufacture haircloth in competition with European manufacturers. The latter, it declared, resorted to desperate measures to prevent the new industry spreading to this country and Pawtucket concern was pushed and facing failure when a Providence inventor, Isaac C. Lindsay, invented a self-feeding power loom which enabled them to compete successfully with European manufacturers.

The plans call for the restoration of the mill property to its original condition. The plant has not been used for some years and is much in need of repairs.

What Is Speed of Jack Shaft?

I would like to ask through Southern Textile Bulletin some experienced carder the following questions: What is the correct speed for Jack shaft on slubbers intermediate and 7x3½-inch speeders? Also speed of front roller and spindles on No. 4 to No. 6 cotton on 60 hank slubber, 120 hank intermediate and 2 hank five frame roving?

Any information will be gladly aparrived in Pawtucket was able to preciated by a young carder just starting out.



"NATIONAL COLORS ARE NATIONAL ASSETS"

The line of dyes FULLY EQUAL IN QUALITY AND FASTNESS to corresponding pre-war types and now comprising NEARLY 300 INDIVIDUAL DYES made by the

NATIONAL ANILINE & CHEMICAL COMPANY

has indisputably established this company's pre-eminence as the LEADING MANUFACTURER of COAL-TAR DYES in America.

Main Sales Office: 21 Burling Slip, New York

Southern Office and Warehouse

236 West First Street, Charlotte, N. C.



Frost Proof Closets

Over 300,000 giving satisfaction. Water; Require No Pit; Simple in the extreme The most durable water closet made. In service winter and summer.

Enameled roll flushing rim bowls.



Heavy brass valves.

Strong hard wood seat. Heavy riveted tank.

Malleable seat castings will not break

Sold by Jobbers Everywhere.

Joseph A. Vogel Co.

WILMINGTON, DELAWARE

While Your Mill is Making Substantial Profits

is the time to equip with loom harness whose service is measured from year to year instead of month to month.

"DUPLEX" Flat Steel Harness can show records of ten to fifteen years service at an average cost of only 10c to 12 1-2c per shade per year with high cloth production and low percentage of seconds.

Let us quote you.

STEEL HEDDLE MANUFACTURING CO

GREENVILLE

PHILADELPHIA

Southern Office
111 Washington St., Greenville, S. C.
Hampton Smith, Sou. Mgr.

N. B. We are the sole manufacturers of Nickel-Plated drop wires for every kind of loom.

Georgia Cotton Manufacturers to Up to Christmas a standard wage Meet at Quebec.

Announcement has been made by the president of the Cotton Manufacturers' Association of Georgia that the twentieth annual meeting of organization will be Quebec, Canada, June 29 and 30.

The meeting will be addressed by Sir Charles B. Gordon, president of the Dominion Textile Co., Ltd., Mon-

Over 100 members of the association will make the trip, and in many cases will be accompanied by their wives. Following the meeting there will be an opportunity for the delegates to explore that section of the country and many touring parties are being planned for this purpose.

The arrangements for the trip to Quebec are being handled by E. G. Chesbrough, general agent of the Canadian-Pacic Railroad for the South Atlantic States. A specially equipped train will be furnished from Detroit to Quebec and a stop-over at Montreal is provided for. Hotel accommodations and convention quarters in Quebec will be furnished by that railroad at its Chateau Frontenac.

Soviets Play Havoc with Cotton Mills,

London.-The demoralized condition of industry in general and of the textile industry in particular which obtains in Russia at the pres-ent is described in an interview accorded the Manchester "Guardian" by two prominent cotton mill managers for many years resident in Russia and just returned from there.

It was stated that in Russia, where industry is nationalized, "the whole of the textile industries are under the Central Textile Institute in Moscow, which sends material-when it has it—to the mills, and directs the distribution of the finished goods. This department is in turn under the Council of the People's Property. The management of the cotton mill at which one of our informants was manager and his colleague an as sistant was transferred to a board of five members of the techniacl staff. A decree came that the men connected with the old capitalist own-ership should be removed, and this meant the discharge of the manager and three others. Our informant was very sceptical of the efficiency of Soviet workshop discipline. The Soviet Government began by taking all administrative power out of the hands of the management, but had now found it was necessary to restore the power of dismissal.

"Up to recently that was only administered by the District Commissary. Then a change was made and the management were given the opportunity of stating a case for dismissal before the commissary, but in the man's presence and in such a way that the odium of dismissal was thrown upon the complainant. The in production decrease enormous.

"When the Soviet revolution took place the workers were told they had been oppressed by the capitalists and did not need to work so hard. They slackened off, and now the government was trying to get them back to the old habits of work.

was paid, although at actual piece rates the men would not earn half of it. Since then bonuses and other inducements to more production have been introduced. The food shortage in the towns is driving large numbers of industrial workers into the country villages, where supplies are more plentiful.

"No mill is working up to its full capacity. I doubt if there are more than a dozen cotton mills turning round at all. Not a third of our machinery was moving, and although three times as many workpeople were engaged, the production was only about a third of what it was before the war. I understood when I life that it was to close after Easter for lack of fuel, though probably also for lack of cotton. There is plenty of fuel if it could be got to the mill. The transport difficulty overshadows everything. Before the war 75 per cent of Russia's cotton supply came from Turkestan; now there are not railways, wagons or locomotives to keep up an efficient interchange of goods. estan depends on Russia for corn and sugar.

"The breakdown of the transport left Turkestan starving, with the result that next year the cotton acreage was greatly decreased and its place taken by food crops. There are still, it is said, 5,000,000 poods of the old crops in Central Asia, but it cannot be brought into Russia. Recently the mills have been so short that the cotton mixture has been 75 per cent of waste to 25 per cent of cotton. The state of machinery in the mills is very bad, and repairs and replacements are urgently needed."

The personal treatment of these two Englishmen under Bolshevik rule has been a long story of petty persecution, searchings of clothes and houses, confiscation of furniture, of household linen and of mon-Arrests on ridiculous charges, followed by release after a few weeks, were punctuated by Soviet orders to remove to smaller houses.

Dates Fixed for 1921 World Cotton Meeting.

Manchester.—The Executive Committee of the World Cotton Conference, in consultation here with Rufus Wilson, secretary of the National Association of Cotton Manufacturers, United States, has fixed the dates for the 1921 conference,

from June 13 to June 22.

The first three days will be devoted to meetings in Liverpool, and the remaining days in Mancheste

It has been decided to have 12 trade groups, splitting the spinners and manufacturers into separate divisions. There will be additional groups for research and statistics.

The meeting of the executive committee is reported to have been very enthusiastic, and the most successful results are expected.

Fountain Mills.

	Tarboro,	N. C.		
C. E. Hall.		Sup	erintende	nl
Joe Ellis			Caru	OF
Jim Lewis			Spillin	Of .
A T Cros	9	H	Vinder M	arr.
R. M. Tay	lor	Master	Mechan	10

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Our Merchant Marine and Its Possibilities

Address of Homer Ferguson

Association:

did not make the jump from The Eagle's Nest to the coast as an enfirely permanent jump, because, like all mountain men, we go back home again and we hope to be laid away in the mountains finally, and I have just come from a trip to the mountains where I spent a week or ten days catching mountain trout and playing golf on the splendid links up there at Asheville, and so the ships and merchant marine has been very much out of my mind and I am enahled to appreciate the point of view of the average American citizen who figures that it is not much of his business anyway and he is getting along pretty well as he is, so why bother about ships.

In fact, ship transportation is a near cousin to railroad transportation, and many of us felt for years, spite of the predictions of the greatest railroad executives of the country that railroads needed to be kept up, that terminals needed to be built, that the property must be extended and equipment supplied-we really didn't believe it because when we got on the trains they ran as usual and we had the physical evidence that our transportation system was in fine condition, and today as a result of the policy of many years of limited income and of raising outgo, we find our country more seriously crippled than it has ever been in its whole history in regard to its transportation, and today we face a situation which is extraor-dinarily difficult to solve, and if it can be solved without national disaster we shall be very fortunate in-deed. And so many people say, "We have the ships now, we have built them, we have spent three millions in building the ships; therefore we have a merchant marine; so why hother about it any more?"

common with the rest of us, manufacturers particularly. It is a right sore point. During the war we spent result of 75 years of neglect of rime national industry, very close four billion dollars to obtain a and a half, and today we are alding ships at \$250 a ton that we d to be glad to get \$50 a ton for. expenditures do not stop there. a result of our war policy, inausurated early in the war, on creating a differential in favor of ship-

by any other cause. A first-class mechanic in a railroad shop today gets 72 cents an hour. The same mechanic with the same training in shipyard gets 80 cents an hour. We created a differential in favor of shipbuilding, but unfortunately at that time it was not seen that the entire industrial and economic resources of the country would be required to win the war. And we have not gotten over the upset yet.

Now the merchant marine Great Britain, the greatest in the world, at the beginning of the war, cost them for all the ships then in commission about one billion dollars. So gentlemen who say we will have a marine but we will not for it cannot neglect the lesson of the war where we didn't have a marine and we paid for it three or four times; and as a matter of fact we haven't got a well balanced one yet. You and I read in the papers how we would build ships by the mile and by the yard and everything We would standardize them so that everybody could build a ship and everybody could own one. Well, But the theory was very nice. when you get so you can build a ship of a certain type, a standardized type, lo and behold you have more of that kind than you want. Of course you can learn to build a 5,000-ton freight ship or a 10,000ton ship according to a pattern. But that is not shipbuilding. That is one part of it. That is something cotton manufacturing where you turn out one kind of goods and specialize on that in order to secure quantity production. But that is not cotton manufacturing. Ship-building is a ramified industry and it takes a whole lot of people to do

Of course we have the ships now and the government is being pressed I take it, gentlemen, that you are to dispose of them to private own-very much interested in taxes, in ers. I take it that like all good business men in the United States you gentlemen do not believe in government ownership of anything which may be owned and operated by private initiative. (Applause). Business men in every business organirine which before the war could zation in this country have gone on a been bought for less than a bil-record on that point. The governand a half, and today we are ment has this 10,000,000 tons of ships. What should it do with them? How should they be operated? We are all in favor of the government disposing of these ships, but as good taxpayers and good citizens intering a differential in favor of ship- ested in the ships we do not want building wages in order to build the them to give them away. We do not ships-we had to have labor—and want them sold for less than they

being secure and that a fair return on your money was a reasonably assured thing. When you buy them now, or a dozen of them now, it is like buying a pig in a poke. There are only two classes to buy them: Either a man who has the shipping business so secure that he feels that he can keep on operating them regardless of conditions, or the other who will buy them as a gamble, who will operate them if he can, if he cannot, turn them back to the government. But one of the prime factors in the values of these ships is the conditions under which they will be operated. Is the government going to give to those sels any preferential treatment? Is it not my purpose to discuss the question of differential duties or preferential treatment except to say that for over a hundred years we did not undertake to build and operate ships except in our coastwise trade. One hundred and fifteen years ago we carried 92 per cent of our products in our own vessels. We did it. by the very simple expedient of saying that in the carrying of our own goods to our own customers and in bringing back their goods to us in return we would give our own vessels preferential treatment in that trade as compared with the vessels of the other party who had no primary interest in the business. result of the War of 1812, which we won on paper and which we lost in the treaty, we gave up that right. It prevented us from granting to our own vessels any advantage. And from 1828, when we gave up the last shred of preferential treatment of our own vessels, our merchant marine has gone down and down until in 1920 we carry less thna 20 per cent, and that 20 per cent is largely controlled by railroads or by interests which were so firmly intrenched that they did not require preferential treatment in order to retain that small percentage of our ship-

Before the war the wheat men of the north and the cotton men of the south said, "We do not care whose ships carry our goods so they are carried by the ships granting the cheapest rates." We had kept the coastwise ships for our own trade, or we would not have had any ships at all. When it came to sending our soldiers to France we did not have the ships to carry them. One million were sent under foreign flags; one-half million in captured German ships which they were kind ships—we had to have labor—and want them sold for less than they enough to leave in our harbors built like it in the world.

because of that the high costs the are worth or for more than they are when they enough to leave in our harbors built like it in the world.

What is the matter with the ship—linted States over has been raised worth. What is the basis of value would not have got into the war at builders? We build ships for peomore than from any other single of this fleet? If any of you gentle—all had we had to depend upon our ple to make money with. We build

President and Gentlemen of the cause, and today the railroad situa- men invested in ships, you would in- own shipping. When the President American Cotton Manufacturers' tion is more complicated by it than vest on the basis of your principal went abroad to settle the affairs of went abroad to settle the affairs of the world as best he could, did we have a ship to carry him? He travelled in a ship of German make. Even the German names are still on the doors of that ship, I am told. The only thing American about that ship was its name—the George Washington. That ship is German from keel to truck. I understand the German signs are still on the staterooms. Why did he go abroad in the George Washington? didn't have a suitable ship for his use. Why, gentlemen, did we not have a suitable ship? When the Panama Canal act was passed, and after we had spent \$400,000,000 on the Panama canal ,it was provided that no ship might pass through the canal any share of which was controlled by a transcontinental railroad. The Southern Pacific company wished to build two George Washingtons. They asked no aid of any kind, but they wanted to build and operate these ships through the canal to San Francisco and on out to the Orient. But they were not allowed to build these ships. We were afraid the railroads would dominate the canal. We were not afraid of the Canadian Pacific. They can run their ships through the canal now. We are very fond in this country of getting after our own "Big Business," but we don't pay very much attention to anybody's else "Big Business." It seems the penalty of success is to incur the political displeasure of a good many gentlemen who express their dis-pleasure at the cotton manufacturers and other manufacturers.

Everybody in the business knows that before the war the shipping of the world was controlled from London and Berlin, and a few gentlemen in those centers ran the shipping of the world and fixed the rates. We did not mind that.

Anyway, the President went to France and back again a couple of times in the George Washington, and does look to me like in trying to settle the affairs of the world and in sending our chief executive to settle them, that it would comport with our dignity to send him in a vehicle of our own making. We think so little of these things that most Americans going to New York and seeing a ship in the New York harthink it is an American ship. We think so little about it that even in the printing of our money we put on the back of some of our bills four-funnel German ship; there has never been an American ship built like it in the world.

PHILADELPHIA

For Over Half a Century Makers of High Grade Soaps and Scouring Materials for Textile Manufactures. Dobbin's Cotton Softener a Specialty

warships too, and in this country we build and design and complete as good and better warships than any country in the world. We do not country in the world. We do not think of going abroad to build them, and furthermore it costs but little more to build them here. But, gentlemen, it requires some practice to build ships. It requires a start build ships. And we cannot build ships unless men think they can operate them successfully. So with this immense fleet we have and its disposition to private owners government has within itself the power to fix the policy under which they shall be operated. If the conditions are going to be such that a purchaser may feel that he can gamble on the operation of ships, then they should frankly state it. It should in decency settle upon its policy before it sells its ships. Otherwise, it may sell its ships at a loss to itself, or it may sell them to a customer who has to gamble on the chance to operate them successfully. Therefore, with three billion dollars of ships to sell, it would seem to be the part of good government, of good sense, to say, "These are the terms under which you can operate, and we will sell you the ships.

That is only one factor. The skill-ed men to operate the ships are very We are somewhat short in them now. We are building them up. The agencies abroad to handle the ships at the other end, to look after the return cargoes; we have practically none of them. They are an absolute essential. The insurance of the vessel and the cargo is one of the prime factors; involves probably more money than any other outlay on account of shipping. Your insurance now is practically all carried abroad. Marine insurance in this country was so scarce before the war that when you built battleship for your Uncle you insured it in London and Berlin, you could not insure in the United States. And actually at our place we have a ship damaged fire in course of construction and a very excellent friend of mine, an Englishman, had to get permission from the navy department abroad and inspect it and tell us when we had repaired it and whether we could insure it. Lloyds is very fine organization, then society on which insurance is then society on which insurance is world by citizens of Great Britain, and you build your shir to them. Now, perhaps, someone thinks he can operate a business in the United States to suit the nationals of another country. But the United States has generally got along be-cause it has discarded most of the rules in engineering and other lines as practiced abroad, and it has built its railroads and its cotton mills in its own way. Why don't we do something of our own? We are engaged in doing it, but it is a long haul. We have gotten up a classification society to class our ships as built, but it will not be done this year, or next year, and it will not be finished in ten years. It requires

The control of the sea, the control of the channels of commerce, is just as important to a man ship- in very keen competition with the

ping his goods out of Norfolk or New York, out of Australia or China or South Africa or Europe, as the control of the rails over which it When you get into ocean runs transportation, they say the ocean is free, anyone free to engage in it. It is not so free that you can particularly notice it. Not if the other men have the terminals, the coaling stations, the agencies, the return cargoes already secured, all the paraphernalia of transportation.

We might get along without a marine of our own. We have for years and years. But we have dis-We have for covered during this war that any country to be a free and independent country able to exercise its own judgment and do its own job in peace and war must have this vital thing or else it must stay at home. have heard much about the peace of the world lately, and the League of Nations; and after all, what does it simmer down to? Great Britain and the United States stand as the great steadfast factors in the world that will save the world if it is to be saved. Two partners, if you please, working together along same lines and with the same ideas. But if we are to remain partners, it is necessary that that partnership based on something fundamentally sound, and that is that each of the partners shall have the things that belong to them in order to retheir independence as far possible. You and I cannot be partners in any business if I must ride to the office and back in your automobile, must be dependent upon you for getting my bread. It cannot be, And the wisest and best Englishmen know that it cannot be; know that United States must have the things that necessarily and fundamentally belong to a country determined to live its own life in its own

It is a long cry from this to the manufacturing of cotton goods, you How long? The United States say? this time, or as soon as it gets to work again, will have after the replacement of our own depleted markets a surplus of manufacturing capacity estimated at from 25 to 35 That surplus must be disper cenf. posed of abroad. A good deal of our That goods are going abroad now. will continue. It is a necessity to us. In years gone by men came to us with their ships for their raw materials which they had to have. difficulty about a man coming for cotton or copper or things he has to manufacture. But when you are disposing of manufactured goods, it is a vastly different proposition. These goods out in competition with You manufactures in the world. say ,Why should not we send them in a Norwegian ship or a British ship or a French ship? Do think anyone else is going to market your goods in the same way you would market them? Do you think the nationals of any other country would take your products into Europe or South America and market them through their agents, their merchants, their banking connec-tions, in the same way that they tions, in the same way that they would market their own? The goods we have mostly sold abroad have been the things where we were not

foreign manufacturers.

Men say that England has never favored her marine much. Their memories are short. They started out in 1660 under Oliver Cromwell with a proclamation that all goods leaving England would be carried in British ships. There was quite a howl raised at the time. She has paid some subsidies. She has paid whatever was necessary to be paid. She has had a tremendous advantage over us; in fact, two or three; but prime and principally is that Great Britain lives by virtue of its sea commerce. That is her life, Without it she is gone. So there is the spur of necessity. Another advantage is that her people have kept to the sea while ours have developed the country. Another advantage is that London is the financial center of the world. We all read during the war that it had moved over to New York. A good many of us have noticed that it has moved back again. We may have the money but London has the advantage in a great many ways. Among others, its geo-graphical position is such that in probability London will be the financial center of the world for many years to come. Not that we to go into competition with them to absorb their trade; but if we have a trade of our own, with our own customer, it does seem to me but the part of wisdom and good sense that we should say in regard to that trade that This is ours, and not hand it over to the common carrier of the seas.

The economic factor is a big one. The political factor is a much greater one. We had an experience in this country many years ago with our railroads. We found out that our railroads. We found out that the railroads of the country and developed a political strength that was considered a menace in many states. Hence there followed the formation of the Interstate Commerce Commission, which has wrought a great deal of good and a good deal of destruction, too, I presume; but any-way we know that whoever controlled transportation came pretty to controlling a good many close other things. And whoever controls the transportation of the world controls everything else.

We have heard a good deal of peace lately, the peace of the world. There is not going to be any lasting peace until we control the transportation necessary to our own commerce, until the right of any nation control the transportation necessary to its own commerce, with its own customers, is recognized, bethereby we do away with good deal of political control. idea of our doing business with any country on terms not agreeable us seems to me to be absurd.

You all know the value of salesmen in your business. Is there any salesman in a foreign market that will compare with an American ship, flying the American flag, officered and manned by Americans, operating through American agencies, and showing the merchants of those countries and the people of those countries that the Americans are there to do business in a truly American way? Not dependent up-on other people for their transpor-tation; not dependent upon other

people for their insurance; not dependent upon the merchants of other nationalities to sell their goods? You might as well have a depart. ment store and turn over the delivery to your competitor.

Now how might that condition be changed? The history of our legislation up to the beginning of war was, so far as my experie goes, covering some 20 years, that ot a line or a comma or a word written into the national statutes that any shipbuilder or owner operator wanted. It was invariably We were called a monop. not done. oly by as high an authority as the President of the United States. saw the other day in the New Yo World an article containing statement that the coastwise shipping of the United States was monoply that the lawyers of Richmond have on the legal business of their community. Very much the same kind of monopoly as the citiz. ens of the United States have the office of President; you must be born in this country in order to ever become its President, and some hundred million of us have a monopoly It is no such thing, that job. Unless our coastwise trade had been held for our own people we would have had no vessels at all to go into this war.

Then you gentlemen say why don't you manufacture ships the same way we manufacture cotton goods. we make them as cheap as they do Lancashire. Shipbuilding is not manufacturing, gentlemen. The process of manufacturing, of duplicatwork, in the shipyard will not comprehend 5 per cent of the labor. It is building, gentlemen. It is vastly different from machine manufacfuring as we understand it. when the war came on our costs were about the same as the British Now they have shut up great deal more. Even if our costs of building and operating were the same, the man that goes into ship carrying business had look out, because he will need some assistance from somebody to established in the business which is already operated by someone else. And unless the Government of the United States settles on a policy thich will give to the citizens this country a preferential treatment of some kind, it will not have a marine and this fleet which it built will eventually pass under a foreign flag. I am willing to stake my reputation on that, and so is every other man who is experienced in the business. On the other hand, if they will grant that preferential treatment in the beginning, after they get established it is quite possible that they will be able to without being helped at all. did Germany build up its fleet? giving their own ships the prefer ence which we all know about that the ships of other nations could not profitably enter Hamburg and Bremen or other German ports in competition with the fleet. How did England build up its fleet? I have seen an Englishman stay in New York six weeks to catch an English vessel back to Europe They give a preferential treatment while not on the statute books, is the most powerful kind of preferen-

(Continued on Page 32.)

Confident United States Is Panic-Proof.

Confidence that the currency and banking system of the United States has made the country "panic-proof" under wise financial leadership, is expressed by the National Bank of Commerce in New York, in an article hearing the title, "The Normal Business Cycle," in the June number of its magazine, Commerce Monthly. The Federal reserve system, the bank says, has been devised to make panics impossible in the future, and there is abundant reason to expect that we shall not see again in this country such demoralization and chaos in the money market as the years 1893 and 1907 witnessed.

No currency and banking system can avoid the recurrence of crises in the sense of liquidation periods, or periods of readjustment, and cush periods, unless too violent and prolonged, are wholesome rather than harmful, the bank says. It explains that such crises are merely phases of the general rhythmic movement in business. It differentiates, however, between crisis as "an affair of industry generally," and a panic as "an affair of the money market." It declares that sound bank policy can and does prevent crises from degenerating into panics.

"As our understanding of crises has increased," the bank states, "we have come to substitute for the notion of crisis the notion of 'business cycle' and to recognize that the crisis is merely a phase of the general rythmic movement in business crisis followed by depression, depression by prosperity, prosperity by crisis again, and so on. There is good reason for believing, too, that with better understanding of the business cycle we are gaining better control of it, that the period of prosperity can be lengthened, that the can be made less severe and that the period of depression can be shortened. If we can minimize extravagance and mistakes of the prosperity period we can make the reaction from it less severe. This relates to the normal crisis.

Periods of reaction and liquidation," according to Commerce
Monthly, "relieve maladjustment
and strain. They prevent unsound
policies from being carried too far.
They give time for the maturing of
my plans and for the careful int.

ction of new processes. They
eck wastes and restore efficiency.
They allay financial fevers. They
mid mitigation and control—but
togressively we are learning to
the strain of the strain of

The most important proposal that has yet been made for the mitigation of the extremes of the business evele," the bank says, "is that the various grades of government, federal, state and municipal, together with large corporations like the railroads, should adopt a buying policy designed to throw as many of their purchases as possible into the period of depression and to withdraw from the market in considerable measure at the height of the period of prosperity."

The Necessity of Better Baling.

(By R. A. S. Reoch, Print Works Dept., Pacific Mills, Lawrence, in "Builders".)

The usual method pursued in baling grey piece goods, is to cover the compressed bale with burlap, and protect the top and bottom with paper, which extends part way from either end, but rarely covers the middle portion of the bale. The result is that during transportation to the finishing works, dirt sifts in and soils the laps of the cloth. It is ever quite common to find the selvage or folds stained with oil, absorbed from the floor of a dirty freight car. When the goods are intended for bleaching, the dirt and oil can usually be removed during the bleachprocess, but if, on the other hand, it is the intention to finish the pieces in the grey state, as for instance "Starch-Back" for shoe linings, stains of this character can not be eradicated. Shoe-shops are becoming more and more critical, and calmly reject pieces because of imperfections such as those referred to, even cut marks being criticized.

The cotton mills can help matters greatly, if more care is displayed in the baling process. Heavy Kraft paper should be used inside the burlap, and the sides of the bale covered as well as the ends. Many mills use paper for this purpose that is of such poor quality that it breaks up and defeats the purpose intended. As an additional precaution it might be well to drop the last fold of each piece, and bring it around the laps in such a manner that the back-side of the piece would completely cover the folds the back-side of the and thus prevent soiling of edges. Any dirt that reached the cloth would thus be deposited on the back of the piece, and would affect only a limited area.

These suggestions are offered as possible helps towards overcoming a condition that is a constant source of loss and annoyance to the finishing mill. It isn't fair that loss of yardage and the making of short pieces and remnants that ensues when such blemishes are cut out should be saddled upon the innocent finisher. A campaign of education in the baling departments of such mills as turn out shoe cloths or other goods finished in the grey state seems to be the only solution of this vexing problem.

Consolidated Textile Corporation. Ossipee and Hopedale Division.

Elon College, N. C.
John L. RobinsonSuperintendent
John H. ColemanCarder
Geo. W. TickleSpinner
Luther IsleySlasher
W. B. MorganWeaver
N. M. Lee Napper and Cloth Room
B. M. BennettDyer
P. M. Geringer Master Mechanic
C. N. SomersShipping Clerk

Toxaway Mills.

Anderson, S. C.
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J. P. Pulliam
F. E. YoungSpinner
J. WestmorlandWeaver
W. F. PickensCloth Room
S. M. Heggood Master Mechanic



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Your product is protected when handled in these receptacles, because the interior construction is smooth and flawless. For example, Diamond Fibre Seamless Roving Cans are in great demand by mills because there is not a seam or projection to catch a particle of the contents. Furthermore, the close texture and glossy surface of the fibre Receptacles preserve their fine appearance under the hardest usage because the color is in-built and the surface does not chip, nick, or wear off.

There is a Diamond Fibre Receptacle for every mill need. Our roving cans, mill boxes, and baskets, doffing cars, gill cans, trucks, barrels, etc., are leaders in their respective fields. Standard sizes and designs, or made to any specifications. Write us your requirements and let us co-operate.

We maintain an office in Greenville, S. C., to serve the Southern mills.

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Bridgeport, Pa. (near Philadelphia)

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Aumidity in General

There seems to be some confusion of the term relative humidity as distinguished from absolute humidity.

Absolute humidity is the actual amount of aqueous vapor in a cubic foot of air, usually expressed in

Relative humidity is the percentage of vapor in a cubic foot of air at a given temperature, as compared with the greatest amount of vapor that can be contained in the same cubic foot of air at the same temperature without precipitation.

In other words, relative humidity is the degree of saturation.

For instance, air at 60 degrees F. can absorb nearly six grains of aqueous vapor per cubic foot. At 86 degrees F. it can absorb about thirteen grains. In each case, air with these respective amounts would have a relative humidity of 100 per At 50 per cent relative humidity, the air would contain half these respective amounts.

While air always contains a certain amount of moisture, this amount is extremely variable. The absorbent capacity of the air for this moisture varies directly with the temperature. In fact, tempera-ture and humidity are interdependent the one upon the other.

the better are the results to be expected, all other things being equal.

To the far-seeing manufacturer,

the question resolves itself not only into one of more and better produc-tion because of humidification, but better conditions for his operatives. A good place to work begets good operatives, more and better work. The question then is not altogether one of dollars and cents, but of dollars and sense.

It is apparent that if the atmoshere is over-saturated, it is harmful to health; but properly humidi-fied air acts in a manner quite the Proper humidification should introduce fresh, pure water. This diminishes the dust and lint in textile plants, and tends also to neutralize the carbonic-icid gas given off in the breath of the occupants, by freshening and revivfying the atmosphere.

Turbo system as a ventilating apparatus, the water and air that are troduced are fresh and pure. Neither of them is second hand.

A properly humidied air will dry atmosphere, and decidedly more so than one containing dust and ing in outside air.

should be a little greater inside the mill than the prevailing barometric pressure outside.

At night, when the outside temperature decreases perceptibly, the percentage of moisture, the relative humidity, increases proportionately as the temperature drops. This is

the cause of dew

The most desirable system of artificial humidification, then, is one discomfort; inordinately expensive, that can be started before the mill and in England, is regulated by law starts. This brings about the proper A proper system of humidificaconditions of humidity by the time the operatives arrive. A system that depends on mill power will cause the humidity to lag until the proper conditions are brought about. means loss of production and deterioration of product and is especially marked on the morning after a holiday, or on cold, dry mornings in winter.

Ventilation of itself will not prove While no claim is made for the efficacious, for oftentimes the out-urbo system as a ventilating appar- side air is warmer than that inside the mill. Drawing in outside air under these conditions will reduce the relative humidity. This explains vhy the most effective systems must ways be more healthful than a hot, be arranged to work directly on the air in the room rather than by blow-

A proper and efficient huimdifying Since mills are not run as labora— It is generally necessary to main—apparatus should be a flexible one; tories, and since laboratory condi—tain the humidity conditions inside one in which it is always possible

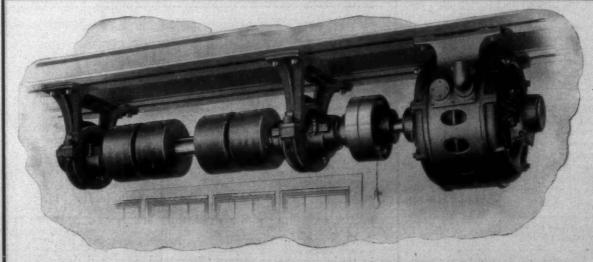
(From May Issue of "The Fog Horn" tions are not generally possible in the mill irrespective of the atmost to regulate the degree of humidity Published by Parks-Cramer Company, Fitchburg, Mass.)

To do needed in each separate department, the device, including humidifiers, this, the atmospheric pressure It should be variable at will, with no great amount of manipulation.

Live steam introduced into the mill is always under control; but since it increases the temperature it defeats its own object. The increased temperature continually calls for larger amounts of moisture to maintain the desired relative humidity. Moreover, it has been found detrimental to health: a source of

proper system of humidification has proven that it is possible to adopt lower standards of temperature and, contrary to general impression, to produce, with much more comfort to all concerned, better manufactured results.

The manufacturer of today is infinitely better off than his predeces-sors. In the matter of humidity, suitable climatic conditions were recognized as necessary by the ear-ly manufacturers. The mill site was selected accordingly, especially in England. A more effective humidifying apparatus seems to be required in North America than in some more favored places, and the necessity for more favorable atmospheric conditions has been the cause of much investigation of the subject. said that the natural atmos pheric conditions of England had (Continued on Page 29.)



"Four Frame Drive"

Universal Motor Drive For Spinning Frames For The Electrification of Old Mills

With this new drive all pulleys are on one end and can be located to suit any spacing between frames. This makes it unnecessarv to move the frames in the electrification of old mills.

The equipment consists of a special spinning frame motor for ceiling suspension equipped with conduit terminal box; bushing type flexible coupling; adjustable hangers; shaft with paper pulleys for driving four spinning frames.

Send for new textile bulletin No. 136 A.

Mills.

The members of the Rotary Club, of Spartanburg, were taken last The guests at this luncheon each wednesday on a visit to the Pacolet received a valuable souvenir from Victor Montgomery, presi-Mills, by in the South, entertained most enjovably for his guests who were lages in the country. unanimous in their enthusiasm over the conditions existing at the mills.

The party made the trip Lan-Superintendent Montgomery, caster and others. One of the first places visited was the nursery where the babies are cared for while their mothers work in the mills. Every precaution is taken to keep the ba hies happy and contented, and the nursery is splendidly equipped. It is in charge of Miss Katherine Do-

The Girls' Club building is fitted up very much as an up-to-date Y. W. C. A. From kitchen to parlor, cleanliness and beauty vie with each other in making this place ideal. The shower baths, the club rooms, the reading rooms—all are arranged with a view to the comfort and pleasure of the young women

One would have to search far to find a Y. M. C. A. better equipped than the "Y" of Pacolet Mill village. The visitors were shown the big hall with a seating capacity of 1,200, where "movies" are shown. The peo ple of the village are charged a small admission fee, not because it is necessary especially, but because it was discovered some time ago that people will attend picture shows better when they pay to see them.

The Rotarians became boys again when turned loose in the physical culture hall of the "Y." They began jumping horses, pulling up on the bars, "skinning the cat" and doing many of the stunts they used to pull off in the days "When we were young, Maggie." They tossed the basket balls and the footballs, and several other kinds of balls around in a most reckless manner, ever and anon "accidentally" hitting some older member who invariably got in range of the barage.

The visit of the Rotarians to Pacolet was on the eve of the anniversary of the great flood of June 3rd, 1903. Taking a number of his guests to a window of the athletic Irall of the "Y," Mr. Montgomery pointed out where the flood did the greatest damage. For a few minutes he grew reminiscent. He told of the washing away of one of the Pacolet Mills and pointed with pride to the new struc-He directed attention to one or two the old houses by way of comparison with the model cottages that how adorn the village. The old mill washed away had 17,000 spindles. The one that has arisen in its stead has 35,000. It was built in 1906 and has twice the capacity of the mill that stood before the flood.

At about 3 o'clock Mr. Montgomery of the "Y" There tables were spread in elegant style and the room artistically decorated. A bevy of pretty girls, young ladies who are

Spartanburg Rotarians Visit Pacolet employed in the mills, were in waiting to serve the visitors. They were under the able direction of Belle Fuller.

Montgomery in the shape of a Mills, by Victor Montgomery, Mr. necktie. There were also doctor dent of the mill company. Mr. necktie. There were also doctor montgomery, who is one of the best ed souvenir pictures showing the montgomery, who is one of the best ed souvenir pictures showing the montgomery and most successful mill men type of beautiful cottages that make acolet one of the prettiest mill vil-

Mr. Montgomery was presented with the Rotary shield as a sign of appreciation by his guests. In thank-Spartanburg to Pacolet by automo-ing his fellow Rotarians for their biles, being received there by Mr. gift, Mr. Montgomery said the object ing his fellow Rotarians for their of the visit was to get better acquainted with a man and see what he is endeavoring to do. He explained that what Rotarians had seen and would see after luncheon represented no mercenary spirit. It was all done for the betterment of working people, and to make them contented With this purpose in and happy. view, it was declared there was no probability of bolshevism entering Pacolet Mill village. As an example of the thrift encouraged by work, Mr. Montgomery called attention to the saving habit of the employes and distributed a statement of the "Employee Savings Bank," which follows:

Statement. As of May 31st, 1920. Resources.

Loans and investments...\$180,178.90 Cash and due from banks 88,783.99

....\$268,962.80 Total ... Liabilities.

 Gapital stock
 5,000.00

 Surplus and profits
 11,698.86

 Deposits
 252,264.03

 Capital stock

Bank organized March 15th, 1917. On date of organization employes had on deposit with the Pacolet Manufacturing Company, \$27,225.22, representing 200 depositors. Accounts averaged \$136.13.

On this day the bank has 1,028 accounts, averaging \$245.39. We have 359 families in the village, a population of 1.974, 2.9 depositors per family of \$702.68. More than every other il yof \$702.68. More than every other (1.9) man, woman and child in the village has an account with the village has an account bank.

The first place visited after luncheon was the laundry of the mill village. It is a far call from John Chinaman to the modern laundry, but the Pacolet Mill Laundry is so far ahead of the average laundry of today comparisons would be out of place. This laundry does washing for 237 families, for the average of \$1.20 per week per family. The plant is not run for the purpose of making money. It just about pays the operating expenses. Ten people are employed in this plant.

The meat market of Pacolet Mills in charge of W. O. and J. F. Horn. Here is a market without an offensive odor. In fact, it is a positive delight to walk into this place. The refrigerating plant in the market is At about 3 o'clock Mr. Montgomery a model. The Rotarians went in the invited his guests to the dining hall refrigerating department and view-of the "Y." There tables were ed the sides and quarters of beef on hooks. It North Pole. It was like a trip to the

(Continued on Page 28.)

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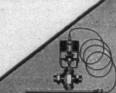
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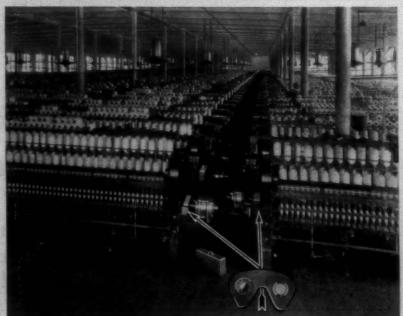
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NOTE the good general appearance of the room—no long, flapping, dan-gerous belts. The result is 98,2% guaranteed efficiency in the trans-mission of power to each spinning frame. Link-Belt Casings make for safety and continuous lubrication.

Let one of our experienced textile power transmission specialists explain the effectiveness of transmitting power thru Link-Belt Silent Chain Drives. Send for our New Book 425.

LINK-BELT COMPANY

PHILADELPHIA

SILENT CHAIN DRIVES

Greenville, S. C.—Announcement is made by John T. Woodside, president of the Woodside Cotton Mills, that approximately one thousand acres of mountain land has been thrown open to the employees of the Woodside Cotton Mills Company, with plants at Greenville, Simpsonville and Fountain Inn for their use as a summer camp.

This properly is located on the Greenville-Asheville highway and is known as the old Wilson place. It embraces some of the most picturesque scenery to be found on this highway. The lower line begins near the store of Mr. Ballenger and the upper line is within a few feet of the old water mill near the peak which can be seen from the road-way. Signs have been placed on both lines and also on the rocks near the road.

This is known as the new road and it was necessary to blast huge boulders from the roadway. It is on the top of these that the pavilion will The lumber be placed. has been bought and carpenters will be on the site this week for erecting this building and repairing several houses which are already on the property.

This pavilion will be easily seen from the roadway several miles down the mountain and commands a beautiful view of the valley below. It is the plan to have a large lake in this valley but that work will not be begun just yet.

There are many interesting places

Scout explorers, and a troop of scouts will go on a camp this week and will go over the place to locate places of interest. There are beautiful mountain streams and good fishing. There are bright, limpid springs here and there for picnic crowds and altogether it is an ideal spot for a summer camp.

The Hendersonville-Greenville bus line passes through the property and this with the number of cars owned by the employes will afford ample means for conveying outing parties to the spot. Those living at Simpsonville and Fountain Inn can easily make the trip in two and a half hours.

Texas Textile Association Meets. Brenham, Tex.—The South Texas Cotton Mills, through Manager Thos. A. Adams, and Superintendent C. S. Tatum entertained the Texas Textile Association in its regular meeting in Brenham last week. A number of local citizens, who were interested in the cotton mill met with the association, and assisted in the entertainment. The Textile Association The officers of the coming year delegates were conveyed to the are as follows: J. W. Cagel, of Denbeautiful grounds of the Brenham ison, president, and C. S. Tatum of Gun and Rod Club, where an excellent barbecue was prepared for their dinner. Among those who assisted Texas, this fall.

Manager Adams in the entertainment at the Gun and Rod Club grounds were Hon. D. C. Giddings, T. A. Low, Henry Muller, Dr. J. J. Marek and W. H. Zschappell. The Chicago, Stability and

The Texas Textile Association was represented at the meeting in Bren-ham by about thirty members, who came from the various mills of the State and from A. & M. College textile engineering department. At the grounds where they were entertained the business session was held. The principal discussion was of the labor situation which confronts the cotton mills of the State.

During the day the delegates to attending a special meeting at the the convention visited the Brenham Hotel La Salle here yesterday, call-Cotton Mill and after that visit they etdo discuss the present situation were warm in their praise of the splendid condition of the mill. Many of them remembered the mill number of years ago when it did not have such a good reputation in Texas cotton mill circles, and they said that they were agreeably sur-prised to find it in such fine running order, and the entire business so capably managed.

All the visitors to Brenham expressed themselves as well pleased with their visit here, and that they were ready to attend the next convention which is held in Brenham, prices quoted for next season.

are as follows: J. W. Cagel, of Denson & Co., Buffalo, president of the ison, president, and C. S. Tatum of association, was chairman of the Brenhamfi secretary-treasurer. The meeting, which occupied both morn-next meeting will be in Hillshess. next meeting will be in Hillsboro, ing and afternoon sessions.

in the park and signs are being pre barbecue provided was of the very progress in the knit goods industry

Woodside Opens "Wildwood Park." pared to guide the hiker to these finest, prepared over the pits at the can be expected for 1921, if the yarn places. There are several caves grounds by experts and served with spinners and knit goods manufactures. S. C.—Announcement which will be the delight of the Boy a splendid sauce. to the jobbers, and the jobbers can sell merchandise to the retail trade with the same assurance that there will be no excessive profit in any of the steps from yarn to retailer. This was the sentiment expressed by 60 underwear, hosiery and knit goods buyers, members of the Johbers' Association of Knit Goods Buy ers, an auxiliary of the National Wholesale Dry Goods Association, and prospects and the merchandis-

ing policies for 1921.

Buyers pointed out that the confidence of the retailer will be firmly established only when he feels con vinced that goods are priced by the yarn spinner, manufacturer and jobber on a basis of actual cost, and asserted that the wholesalers stand ready to co-operate to the utmost in keeping prices down to the lowest consistent levels. They declared will enter the market feeling that there is no false foundation to the

Ernest C. Hall, of Clawson, Wil-

The price situation in hosiery and underwear was discussed, information being presented to the effect that yarn and labor costs were op-erating to make reductions in whole-Stability and salers' costs extremely difficult. was pointed out that, with yarn at

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ANNOUNCE, that in order to provide increased manufacturing facilities, that these extractors will be hereafter manufacturing.

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EAST-JERSEY-PIPE-CO. SUCCESSIORS GILLESPIE-MOTOR -

nost six times its pre-war price, than today's mill prices. and wholesalers on a basis lower control in 1921 prices.

th labor at 2 1-2 times its pre-war ing prices for 1920 merchandise were st and with the automobile indus-taking a heavy tonnage of cotton doubled in price since the placing of rn for cord tires, it was a serious that business. In view of the raw oblem to get raw material and lactotton and yarn situation it appearance costs down so as to permit of ed to be beyond the range of possi-wer prices. Merchandise for the bility that the present mill prices clance of 1920 is now in the distribcan be as low. In fact, increased ors' hands and is owned by retail- prices in yarn and labor will largely

FOR SALE!

ComplèteCotton Mill Equipment

All or any part of cotton mill equipment given below for sale-immediate delivery.

1	Lowell Twister, 96 spindles, 4" ring, 51/4 ga., creels for 5 ply	20.00
1		Spindle
2	Universal Cone Winders, No. 50	075.00
2	No. 5 Cone Winders (each)	275.00 125.00
1	Inman Brand Machine	15.00
8	Roving Boxes (each)	
	107111g Doves (each)	
C	out 300 10" Roving Cans (each) 3-Gal. Fire Extinguishers	9.00
4	Knotters (each)	20.00
1	60 Horse Power G. E. Motor, type 1, Form L, 60 cycle,	20.00
	220 volta Ann 100 with 12" puller	\$ 825.00
1	220 volts, Apm. 100, with 12" pulley 15 Horse Power G. E. Motor, 60 cycle, 3 phase, 220	φ 020.00
	volts, auto starter	325.00
1	25 Horse Power G. E. Motor, 220 volts, 60 cycle, 1135	020.00
1	R. P. M., 10" pulley, Type C. C. L., with Westing-	
		475.00
1	house starter	100.00
1	Hand Feed Drill PressSingle Beater Atherton Breaker	1.400.00
1	Potter Atherton Finisher	1,000.00
1	Kitson Willowing Machine	275.00
11	40" Pettee Cards, 10" coil (each)	1,450.00
2		10.00
1	Head Pettee Drawing, 5 deliveries each (delivery)	30.00
	12x6 Providence Slubber, 64 spindles, per spindle	30.00
1		10.00
1	spindle	18.00
1	8x4 Woonsocket Speeder, 128 spindles, per spindle 192 spindle Lowell Spinning Frame, 2¼ ring, 2¾ ga.	18.00
1 2	192 spindle Lowell Spinning Frame, 24 ring, 2% ga.	
4	Atherton Spinning Frames, 208 spindles, 1%" ring,	
1	2% ga.	
1	Lowell Spinning Frame, 208 spindles, 1%" ring, 2% ga.	
4	Lowell Spinning Frames, 144 spindles, 1%" ring,	6.00
1	2% ga.	
	Whitin Spinning Frame, 154 spindles, 2" ring, 2% ga. All spinning have creels for double rolling.	
1	6x5 Whitin Spooler, 60 spindles	7.50
1	6x5 Franklin Spooler, 40 spindles	7.50
2	Silver and Gay Ball Winders, 16 spindles each, from	
	3 to 9 ounce ball (each)	425.00

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Wool Spinning Frames

WORSTED MACHINERY Cone Roving Frames

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Function of the Textile School

(By W. H. Dooley, before National tinent. Cotton Manufacturers Associa- broadly

Originally all textile work was done in the home under the direction and guidance of the parents, who imparted the necessary instruction. As communities became larger and cities sprang up, the textile work grew to be more than a family concern. There was a demand for a better grade of textile products and a larger, production. This meant a greater supply of hand tools than was usually found in the home of the ordinary worker. As time went on some cloth workers became more proficient than others, established shops of their own, employed several workmen, and also some young men to learn the trade. They became quite important, and soon grouped themselves together under an organization called a "guild," and applied to the city for under certain privileges.

The master cloth-workers naturally turned to the question of training workers, that they might have a high standard of workman-The cloth-workers' guild set up very definite standards for the training apprentices. They were obliged to serve seven years and masters supervised the work of the apprentices. The desire of the apprentice to become a master some day was the incentive for him to acquire a complete knowledge of the manufacture of cloth, not only in skill, but theory of materials, etc. Scientific knowledge of the trade at this time was ver ylimited.

European countries saw many years ago that the most effective way of training textile manufacturers, agents, superintendents, overseers of rooms, and so on, was not by the crude rule of thumb methods of the mill alone, but by supplementing the mill experience with technical training. It has been proven many times abroad that knowledge obtained in a textile school is more scientific, better arranged and more practical than the knowledge that can be obtained in the mill alone, without the school.

Since the first textile schools took definite shape in Europe, it may be worth while to study the aim and organization of some of the typical schools. European textile schools aim to meet the needs of the local industries. The organization of the industries differ from the industries of this country, and the schools are correspondingly different. importance of textile schools cannot be too highly estimated. They were the main pillars by which Central Europe textile industry maintained its competitive power in the foreign market. Cheapness of labor was not sufficient to attain this end; cheap labor must be taught, and taught well, or their work in the end costs more than that of more expensive hands, who possess high skill and a thorough understanding of their trade.

1896 a reorganization of the textile schools was made on the Conspecial textile schools to produce and unskilled). The manager or the skilled artisans and foremen, agent may and may not come from

tinent. The schools were divided the ranks. In the past it has been broadly into classes: First, higher possible for men who were not gradspecial textile schools intended for the training of the skilled manager, director and supervisor. Second, The aim of each textile school was more clearly defined than it been previously. Instead of being a hodge-podge, the course of study was constructed so as to confine instruction to that branch of the textile industry which existed in that locality.

The financial assistance given by the different Governments in textile education enabled enormous prog-ress to be made. Old models, charts, machinery, drawings and the numerous other essentials necessary for efficient instruction, were replaced and improved and more modapparatus introduced. schools have large staffs of lecturers and assistants; they have ample accommodation for lectures and class work in textile and allied subjects; schools are furnished with good libraries and reading rooms with current textile publications.

The first textile schools were not stablished in the United States until after the Centennial Exhibition in Philadelphia, when, on investigation, the superiority of European textile products was found to be due in a large degree to the textile schools. The workers, overseers and experts of the mills in this country were generally recruited from the mill centers of Europe.

Since the purpose of school is to train specially to meet the needs of the textile industry, it is clear that, in order to be efficient in the largest sense of the word, the school must function with the needs of the industry. This means that every textile school should meet all the educational needs of the textile district in which it is located. A textile school in Europe with a native population and a strong apprenticeship system will have a slightly different course of study than that of one in the United States, with a large number of non-English speaking operatives, and a different in-dustrial organization. The most efficient textile school is that which comes nearest to meeting all the needs well. Therefore before we are to determine the functions of a textile school, it is necessary make a survey of the textile industry in this country, study the organization, and note the needs.

The textile industry of the United States today, in order to increase production and decrease expense, tends towards the uses of labor savdevices and power machinery, which in turn means a movement towards standardization and specialization of products, which involves a large organization. The organization is divided into two departments, production (manufacturing) and distribution (selling).

The production is carried on in mills varying in size from a large to a small plant, with a manager, agent or superintendent, overseers, second-hands and workers (skilled

possible for men who were not graduates of a textile school, but who possessed good common sense and husiness capacity, to rise to this po-sition. A manager or agent of a mill must have a great deal of foresight and will power. He must have initiative, an analytical mind, and executive ability; that is, he must be able to see clearly a problem, its solution, and have the ability to put the solution into effect.

The overseer and second hand usually come from the ranks of workers. They are the job masters and as such must be able to get good work out of the workers. means they must have good judgment of human values, handling men. In addition, their outlook on life will be very different from that of the worker. They must have a habitual reaction to human reaction.

The skilled worker must have a clear mind capable of keen perception, and an inventive mind. The keen sense perception should be such as to do very accurate work

A great many textile workers are f the unskilled class, simply machine tenders, whose only qualification is the ability of being dexterous. Any reflective action on the part of the semi-skilled worker retards the rate of production.

The progress of the textile industry in the past and today has' been due to the efforts of scattered inventors and workmen, all laboring under great disadvantages. The progressive manufacturers of textiles are beginning to see that there are numerous possibilities of applying different scientific discoveries Competition that have taken place. compels us to realize that all textile industries have developed to a point where the working out of theory and practice has become a science ,and that the application supersedes the old "rule of thumb" method, and demands the continuemployment of scientifically trained leaders and bureaus of re-search. The results of such bureaus tend to lower the cost of production by eliminating manufactory weaknesses, improving tolls, and applying principles of science to materials, waste products, methods, etc.

Another great educational need is the training of the non-English speaking operative. We are just beginning to realize the problem of the education of thirteen million foreign-born people in this country, many of whom do not speak our language, do not come in contact with Americanizing influences, and are in a measure out of sympathy with the country's institutions. Heretofore we have looked to traditional school system, the influence of social contact, and city life to mold the recent immigrant and his children into American citizens. Experience shows that the mills must co-operate in educating these non-English speaking employes and the textile school should offer definite pedagogical courses for training teachers for this type of work

To summarize: The function of the cotton spinning world, to see

a textile school in America today is to meet all the educational requir ments of the textile industry. This means comprehensive courses agents, experts, and research workers, and briefer and more practical courses for overseers and mechanics. In addition, special courses should be offered in the training of safety enginering and employment maangerial work, and last but not least, the textile school should be come an experiment station for the industry, the staff of teachers and the pupils investigating the problems of the trade.

Reclaiming of Waste Cotton Perfected in Modern Georgia Mill.

Atlanta, Ga.—Like an oasis in the desert appear the mills and model village of Hillside, as one tops the hill after leaving LaGrange. After a sojourn in the land of cotton. where order and consideration for cotton as a staple is noticeable by its absence, one is refreshed by even a distant view of the ensemble of orderly buildings that have evidentbeen designed with an intention to treat cotton as a king, and to remedy the beggarly condition to which the staple has so far given evidence.

The establishments conceived by Fuller E. Calloway are renowned not only in this country, but in all cotcenters, as being the most perfect not only for the proper treatment of the cotton staple, but also for the well-being of the workpeople. This, one has heard and read, but a visit to the mills far surpasses one's expectations.

Here there is no waste. From the time the fiber enters the mill until the finished product leaves it, every scrap of the original cotton is util-And rumor has it that the waste or by-product of other cotton factories find their way here to be reclaimed, and sent out rehabilitated. Some to be again spun and woven into an inferior fabric, others to find service with the mattress makers, or perchance to be made into paper pulp.

The particular object of our visit was the desire to see the methods adopted for the reclamation of the various classes of cotton mill reject materials. Mr. Crane, the superintendent, since the inauguration of this machinery, some five years ago, avows that his idea was, and is to raise the cotton waste trade in all its branches to a higher moral level. And he can rest assured that he has attained his object, so far at least as the Valley Waste Mill is concerned.

All classes of cotton mill waste are dealt with, from the common. dirty picker droppings to the best of peeler combings. Each and every class of material is treated with the same care and cleanliness. The rooms and the machinery are kept up to concert pitch, clean and heal thy. Naturally, the workers respond to such surroundings, and it is surprising to an old stager, who has seen waste handled in most parts of the class of workers as here repreented.

One of the chief reasons for the sanitary surroundings and the con-tented looks of the workpeople is the minimum amount of direct handling the material receives. One sees, for example, the incoming bale of waste presented to a machine, there fed to an endless lattice on the machine, and nothing more is seen of the material until it has been packed into a new bale ready for reshipment. One handling of the cotsuffices during the process of reclaiming and cleaning.

Threads are fed to the Garnett (or a battery of the machines), and automatically to the press, sufficiently clean for the mattress. On its emergence from the press as a soft and perfectly fluffy and fibrous material. Dirty picker droppings, full of dust and motes and trash are passed through a willow and are delivered way through the willow the material has dropped all the motes and trash, and not only has it done this, but the machine has automatically separated the refuse into three

are received here just as they are swept up, and as yet no machine having been discovered to pick out the sundry objects that find their way into the mill sweepings bag, these sweepings are sorted by hand. This process, naturally one not noted for cleanliness, is at the Valley Mills conducted under conditions that would put to shame many weaving sheds. No dust, no dirt, no loose cotton about the floor. work is proceeded with in an orderly manner, and the cotton is conscientiously separated, the good, the bad and the medium, the clean, and the oily.

To inspect this sorting room would prove a very valuable lesson to many cotton mill superintendents, and from its contemplation and the following of similar methods in their own mill, would result in the making waste contain to render attention to it in the making so important? Clean roving waste, good spinners underclearers, even cotton from the lapcould all have gone back to the original cotton mixing! Not only valuable cotton, but strange to quite an appreciable amount of empby spools and filling pins, which sold direct to you from the forest.

Arriving already built with the sorting party.

Nothing here is wasted, and at the same time every class of material is furned out from the mill in the same respectable package. It is no exag- mum. There will be no piles of geration to say that the reclaimed waste lumber left. Every waste material, when ready for shipment, presents a better appearance than ey any bale of new cotton received at T the spinning and weaving mill. All The Most Logical, Modern, this is a sad commentary on the treatment that the virgin cotton receives here in the South from the time it leaves the field until it gets in he spinners 'hards.—Daily News

The Elements Aid Advertising. "I don't need to advertise," said the manufacturer of women's hos-

"My customers always adver-

tise my goods.'
"But," argue "But," argued the solicitor, "it doesn't always rain."—Exchange.

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		Gentry			
		Camp			
Tr.	M	Andrews A	fast	or	Mechanic

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THURSDAY, JUNE 10, 1920

The Textile Foundation.

step was taken in the decision to esthe auspices of the Southern Textile etc. Association. The object of the Textextile information from records and the South.

Southern Textile Association with a tire time to the work.

When F. Gordon Cobb of Lancaster, S. C. became president of the Southern Textile Association he that two processes of drawing would started a great work through a sys- give stronger yarn than one process tem of questionnaires which were but the result of a series of tests sent to every carder, spinner, weav- showed that the yarn made with er and master mechanic. The ques- one process broke stronger than tionnaires asked the practical men that made with two processes. of the mills to give their opinion upon many points such as drafts, yarn from one process of drawing speeds etc., and the answers were frames might be stronger it was carefully compiled.

a considerable difference of opinion the number of doublings. When, upon almost every subject but when however, asked to select the eventhree-fourth of the replies were fa- est yarn from a number of samples to be conclusive evidence that it was ples of yarn made with one process the correct view.

Not only was a great deal of valuable data compiled but it started At the recent meeting of the the superintendents and overseers of the work that the Southern Tex-Southern Textile Association at to studying and many of them have Spartanburg, S. C., a very important begun to make tests to determine for themselves the advantage or dis-

tests would be far more valuable if creased efficiency. It is proposed that the Textile made under the direction of experts fund to be contributed by the cot- pose of the Southern Textile Asso- tile Foundation. ton mills or individuals and it is ciation to have the Textile Foundaproposed to employ one or more tion make systematic tests wherever high class men to devote their en- desired and when satisfied with the results of the tests, to distribute the information among the mills.

A superintendent recently claimed

He then claimed that while the not as even as that from two pro-If was readily seen that there was cesses and based his argument upon vorable to any one idea it was taken he very readily picked out the samof drawing.

results would have been different but if, as some claim, one process of drawing will give stronger and evener yarn than two processes, the evener yarn than two processes, the red radicalism. Red is their colo information would save thousands inflammation is their business; th of dollars to the mills both in labor and power.

We do not know that one process of drawing is as good or better than two processes nor are many mill men in position to state positively which will give the best results.

The experts of the Textile Foundations will have that as one of their problems and when they have comniled the results of hundreds of tests made under uniform conditions and the test made by single thread testing machines instead of the ordinary yarn testers, the mill men will have valuable data upon which to base opinions.

A mill manager recently suggested to his superintendent that he change the draft upon his cards from 95 to 125 but the superintendent claimed that the long draft would weaken the yarn. In such a case the tests and records of the Textile Foundation would be available to show which draft would give the best results.

The above are simply illustrations tile Association intends for the Textile Foundation to perform.

There are hundreds of questions tablish a Textile Foundation under advantage of certain drafts, twists, of draft, speed, twists, settings etc. that are of vital importance to the The trouble, however, has been mills and when the superintendents tile Foundation will be to compile that they have not the time or pro- and overseers through their organiper system to take into considera- zation take hold of these problems actual tests and distribute same tion all of the factors that might it will mean a saving of thousands throughout the textile industry of affect the result of a test and such of dollars to the mills through in-

The Southern Textile Association Foundation shall be operated by the such as will be employed by the has taken a great forward step Textile Foundation. It is the pur-through the formation of the Tex-

Keeping Contracts.

fearless, vigorous, aggressive man is apt to make enemies, who dislike him so intensely that they would kill him if they could get by with it. In spite of them he walks abroad, attends to his affairs, succeeds, and lives to a green old age, IF-if the germs don't get him. His very vigor and consequent activity, his going abroad and mingling with friends and foes, the strength of his appetites and passions, bring him into contact with enemies so small he cannot see them, which find lodgment and breed prodigiously within low and take his life in its fullness.

Organized labor is a strong and vigorous body. It has been intensely active in affairs; it has in full measure the appetites and passions which it condemns in others.

Possibly with different staple of has enemies without who would fain cotton and on different numbers the put an end to its existence; in spite of them it lives and thrives. is breeding germs within itself, that threaten its very life.

> There are the typhoid germs create a fever in the body of lab which instead of building, burns.
> When the blood is super-heated it cannot perform its natural functiand the body wastes away. more vigorous a body is, the more good blood there is in it, the greater the danger to it from fever. bodied, . passionate blooded, large people rarely survive fever. If organized labor would live and thrive it must get rid of its fever germs.

Then there are the pale germs of contract breaking; they attack the vital organs and tissues of the body of labor, make it weak, and wob-bly, and unreliable. Most of our physical bodily diseases come from contract breaking, when stomach, liver, heart, or lungs fail to fulfill agreed upon and expected functions. You will hear a suffering, weakening human explain his condition by saying: "My stomach nac gome." It has broken its contract. "My stomach has gone back on

Fever in the blood gives a false seeming of strength; a man in the delirium of fever appears to have the strength of five men. But it is destructive strength; each paroxism saps natural strength. The pale, insidious, slow-working, tissue degenerating germ takes away even the seeming of strength. Such is contract-breaking germ in the body of labor.

A man, or a group of men, who makes a contract and will not keep it, is a victim of degenerating weakness. "An honest man's word is as good as his bond;" that is because he strong enough to keep his word. When the word of an organization of honest men takes the form of a contract, that word will be made good, if they are strong men. takes a strong man to be honest. Dishonest, word-repudiating, contract-breaking men are weak men and weaken whatever cause they stand for.

The strike is a most effective weapon in the hands of strong men It is organizations. deadly weapon. But weaklings can-not wield it. It has been brought into much and well-deserved disrepute recently and the principal reason is that those who tried to use it were in many cases contract breakers. It is stated that in one State, out of the strikes occurring, eighteen were in violation of contracts.

When a man or an organization contracts for a stated time to deliver a stipulated number of hours good, honest work under specified conditions for a fixed wage, it must sacredly keep that contract or stand convicted of fatal weakness and dishonesty. That goes also for the his own body and presently lay him party of the second part. Labor has a vast contempt for employers who break contracts; let it scrupulously keep its own. That way, strength and honor lie.—Greenville (S. C.) It Daily News.

Personal News

of weaving at Lockhart, S. C., is now dence may communicate with Mr. overseer of weaving at Eureka Mill, Carter by mail.

O. H. Dunn has resigned as overseer of spinning at the Eva Jane Mill, Sylacauga, Ala., to accept po-sition as superintendent of Danville Knitting Mill, Bon Air, Ala.

B. H. Wilson has resigned as overseer of spinning with marlboro Cotton Mills, McColl, S. C., and accepted position as overseer of spinning, spooling and warping with Winnsboro Mills, Winnsboro, N. C.

L. W. Misenheimer, master me-chanic at the Woodside Cotton Mills, chanic at the woodside Cotton Mins, Greenville, S. C., has resigned to accept a position with the Republic Cotton Mills at Great Falls, S. C. His brother, G. W. Misenheimer, has been made master mechanic at the Woodside Cotton Mills.

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T. B. Murphy, who has for the past twenty years been overseer of weaving and spinning and master mechanic in various mills in Geor-gia, Louisiana and Texas, has accepted a position in the weave room of Augusta Factory, Augusta, Ga. The Augusta Factory is the first-mill he ever worked in.

Superintendent Kills Wife and Self.

W. K. Davis, superintendent of the Marion Manufacturing Company, Marion, S. C., shot and killed himself after killing his wife in a New York hotel last Saturday, June 5.

Textile Foundation Committee to Meet.

The committee on Textile Foundation named by the Southern Textile Association will meet Saturday, June 12, at 11 o'clock at the Selwyn Hotel, Charlotte, N. C. The committee is as follows: David Clark, chairman; F. Gordon Cobb, Lancaster, S. C.; W. M. Sherard, Whitmire, S. C.; C. W. Causey, Greensboro, N. C.; Marshall Dilling, Gastonia, N. C.

They Were There.

Last Friday A. B. Carter, secretary of Southern Textile Association, came into our office accompanied by John E. Humphries of Diry Ring Traveler Company, and George Witherspoon of Spartan Sizing Compound Company (some ac-companiment) and made statement that he read over entire list of those present at Spartanburg and did not find the names of the above two gentlemen and that he wanted to make affidavit that they were pres-

He made the affidavit and explained to a certain extent why these men uld not sign the attendance cards. A. B. told us some other things regarding these two gentlemen and their visit to Spartanburg but they made special request that this information has a special request that the special request that the information has a special request that formation be omitted from the pa-

Dacotah Cotton Mills.

	Lexington, N. C.
	A. Frank BrutonSuperintendent
ļ	W. T. ByrdCarder
	C. L. WilliamsSpinner
	W. M. Callaway Beaming & Slash'g
	Walter Richardson Weaver
	R. R. Stovall Asst. Supt. & Cl. Room
	G. L. Cope
KS U	A. L. Crissman

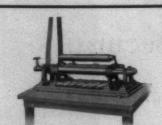
Division—International Hogansville Cotton Mill.

Hogansville, Ga.

D. G. Reid	Superintendent
W. L. Martin	Carder
W. H. Hartley Spin	nning, Spooling,
	and Twisting
Ed McGee	Weaver
R. C. Birdsong	Cloth Room
W. H. Smith	Master Mechanic

Texas Cotton Mill. McKinney, Texas.

W. M. Mashinie Superintendent
W. B. HollingsworthCarder
A. M. CoxSpinner
A. M. CoxSpinner and Slasher
D. B. Boothe
O. D. FredrickCloth Room
M. T. Massingill
E. Bartholomew



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MILL NEWS ITEMS OF INTEREST

Charlotte, N. C.-Barnhardt Manufacturing Company are building a \$45,000 brick and concrete addition to their mill.

Lexington, N. C.—Dacotah Cotton Mills will build 192x54 foot addition to their mill for spinnin gand slash-

Goldsboro, N. C.—Borden Manufacturing Company has increased capital stock from \$300,000 to \$2,000,-

Gaffney, S. C.—Hamrick Mills have increased capital stock from \$250,000 to \$500,000.

Maiden, N. C.—Victory Spinning Company has been incorporated with a capital stock of \$600,000 by H. S. Robinson and Lewis Rudisel of Lincolnton, N. C., and G. W. Rabb of Newton, N. C.

Newton, N. C .- The City Cotton Mills, recently noted as incorporated with capital of \$500,000, will have plant equipped with 5,000 spindles manufacturing 40s to 60s cotton yarn. Production is expected to start October 1. E. S. Shelby is president and F. L. Newby is treas-

T. R. Morton has resigned as su-perintendent of the Martinsville (Va.) Cotton Mill and accepted a similar position with Henry River (N. C.) Manufacturing Company.
J. C. Keller is now superintendent

of the Vance Cotton Mills, Salisbury,

Fayetteville, N. C.—The Tolar, Hart and Holt Mills, and the Holt-Williamson Manufacturing Company have installed a complete equipment of Select-O-Phone, automatic interior telephone and call system manufactured by the Screw Machine Products Corporation, Providence,

Inman Pays 400 Per Cent.

Spartanburg, S. C.—Inman Mills, of which K. A. Chapman is president and treasurer, have decided on a stock dividend of 400 per cent, 300 per cent to be in common stock and 100 per cent in preferred.

This is the largest stock dividend that has yet been paid by any South-ern cotton mill. The present capitalization is \$350,000.

Announcement was also made this

morning that directors of the Marion, N. C., Mills of which D. D. Little of this city, is president and treasurer, have declared a cash divi-

dend of 60 per cent payable at once. Stockholders of the Saxon Mills met today and ratied the action of the directors in declaring a stock dividend of 200 per cent. Stockholders of the Clifton Mills

also met today and ratifled the action of their directors in declaring a stock dividend of 100 per cent. This mill also paid a cash dividend of 46 per cent.

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Goods Not Going into Consumption Quickly Enough.

Manchester, Eng.—Some in the English trade are evidently rather disturbed because they understand that goods are not going into consumption as rapidly as they are sent out, "although, in many cases, the unrequired articles are much cheaper than those now in process." other point for particular concern here seems to be that the mills in various European centers are again at work on a fairly large scale.

These fears were discussed by the Times Trade Supplement, as fol-

If the mills which spin and weave cotton were to stop from any cause, the price of piece goods would rise immediately, but throughout the anxieties of the wage negotiations which have now terminated successfully few people bought in view of that contingency. For a long time now, except in special lines of goods of the highest quality, the market has been dull.

An awkward fact which has recently come into prominence is that in more than, one large market abroad goods are not going into consumption as rapidly as they are sent out, though in many cases the unrequired articles are much cheaper than those that are now in process of manufacturer. Another disquieting truth is that in not a few retail establishments in this country cottons are on offer at rates which are not higher than current mill prices. No one need be surprised to learn that under these influences cloth prices ,in some, though not in all quarters, show a tendency to de-cline. Probably the fall would have been more marked than it is but for the certainty that from an early date the wages bill of every mill will be considerably increased. During the negotiations, which were presided over by Sir David Shackleton, the representatives of the employers committed the trade to the payment of largely increased wages, and nothing is more certain than that these increases will have to be borne by the purchasers of yarn and cloth.

Evidence is forthcoming from day to day that many manufacturers are pushing ahead of their engagements for the delivery of goods three or four weeks in advance. Another point which must not be overlooked that foreign mills are once again at work (France is particularly active) and are lessening the monopoly which England has enjoyed for a considerable time. Indeed we have returned to the days when there are complaints that ships leaving Con-tinental ports for distant lands are nearly full of goods before they reach English ports. One effect is that English goods are not carried with the regularity that a sound system of leading days. tem of trading demands. There are periods when they do not go at all, followed by periods when they are crowded on to ships which, on arrival of their death of the condenses. rival at their destination, overload the markets.

Increased Production by Cotton Yarn Users Might Mean Higher Prices.

Philadelphia.—Since cotton yarns have not responded fully to the unorganized campaign for lower prices, some manufacturers are beginning to believe that the solution of the reduction problem lies in curtailment of consumption rather than in increased production, and this phase the situation is receiving very careful study.

Increased production, it is pointed out, can be had only at the producer's hazard, and, furthermore, is not possible with the present shortage of help and the disposition to limit output for giving employment to the greatest number of persons.

In the present state of the market, with loans restricted and buyers deferring operations, it is urged, it would be very dangerous, from the standpoint of the manufacturer, to produce more than is being absorbed. Accumulations of stock, as is shown by experience, would afford distributors opportunity for dictating prices and terms to mills in need of funds and unable to borrow from banks.

There is a question, too, whether any material speeding up for in-creasing output would not tend toward higher prices. It is reasoned that with the first show of activity yarns would advance, and that it is not improbable that any crowding of production would be the signal

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THE "NO-WASTE" ROVING CAN

Made of Seamless Hard Fibre

Prevents Your Waste and Broken Ends

The "NO-WASTE" Seamless Roving cans have a reputation for quality and smoothness wherever roving cans are used. Practical experience has taught mill men in all sections of the coutnry that ultimate economy can be achieved only with an equipment of "NO-WASTE" Seamless cans.

STANDARD FIBRE CO.

25 Miller Street

Somerville, Mass.

for wage increase demands.

Curtailed consumption, it is argued, would be nothing more than a duplication of what has been going on, as between jobber and manufacturer, for some weeks. The effect, it is held, would be to bring about an accumulation of raw materials, with offers of lower prices at the source, leading eventually to a keener interest among manufac-turers and a buying of yarns as soon as it might be assumed prices had reached the bottom. The maximum depth would not be witnessed, however, so long as consumption were held in check.

"Greater Loray" Held Community Celebration.

Another chapter in the development of "Greater Lorav" was added by the celebration and flag raising held at Gastonia, N. C., Friday, June 4.

Capt. R. G. Cherry, mayor of Gastonia, and Rev. E. P. Stabler, pastor of West End and Franklin Avenue Methodist churches, were the principal speakers. Mayor Cherry was introduced by Rev. Edgar Moore. Throughout the course of his speech Mr. Cherry stress the value of the playground in childhood development, also laying special emphasis upon our appreciation of our flag, whether it be here or abroad.

At the conclusion of Mr. Cherry's address, Rev. Mr. Moore introduced Rev. E. P. Stabler, who made a very appealing talk on the principles of the flag, interpreting those principles as freedom and righteous doing.

The mill was closed for the event and quite a number of Loray people assembled. Music was furnished by the Loray Concert Band.



THE CHOICE OF A HUMIDIFYING SYSTEM

must be one that for simplicity with great capacity and economy in maintenance produces uniformly such conditions that may be determined for the different requirements of the work. In the American Moistening Companys method of humidifying, all such requirements are GUARANTEED.

Our COMINS SECTIONAL HUMIDIFIERS
Our FAN TYPE and HIGH DUTY HUMIDIFIERS
Our VENTILATING Type of Humidifier (Taking fresh air into
the room from outside)
Our ATOMIZERS or COMPRESSED AIR SYSTEM
Our COMPRESSED AIR CLENING SYSTEM

Our CONDITIONING ROOM EQUIPMENT
Our AUTOMATIC HUMIDITY CONTROL (Can be applied to systems already installed)
Our AUTOMTIC TEMPERATURE CONTROL
Are all STANDARDS OF MODERN TEXTILE MILL EQUIPMENTS

WILLIAM R. WEST, President

AMERICAN MOISTENING COMPANY

BOSTON, MASS.

FRANK B. COMINS, Vice-Pres., Tress. and Gen. Mgr.

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TALLOW—OILS—GUMS—COMPOUNDS

ALSO HOSIERY FINISHING AND BLEACHINGS

A new product especially for Print Cloths. A complete warp size, requires no addition of tallow



Tallow, Soluble Grease, Soluble Oils, Gums, Glues, Gum Arabol, Lancashire Size, Waxes, Finishing Pastes, Soaps, Glycerine, Readymade eavy Size, Sago and Tapioca Floura, Dextrines, China Clay, Soluble Blue Bone Grease, Bleachers' Blue.

SPECIAL COMPOUNDS FOR WARPS, WHERE STOP MOTIONS ARE USED.

WEIGHTING COMPOUNDS FOR COLORED AND WHITE WARPS. FINISHING COMPOUNDS FOR ALL CLASSES OF FABRICS. The Arabol best grades of cotton warp sizing compounds make the "finest weaving and will hold the fly."

These compounds are based on the best practical experience and the best materials used in their manufacture.

The Arabol Manufacturing Co.

Offices: 100 William Street, New York.
Southern Agent: Cameron MacRae, Concord, N. C.



GUY L. MELCHOR, Ga., Ala. and Tenn. Agent, Atlanta, Gr

New Scale Catalog.

The American Kron Scale Company has just issued a new catalog which is of especial interest to cotton mill men. It is illustrated with scales for every purpose and shows how they may be installed. All Kron Scales are automatic and springless and for quick, accurate weighing all that is necessary is to "Load and Look." One of the impressing features of the catalog is the preface written by Mr. Ohnell, president of the company, and is as follows:

"Prosperity for all depends on production.

"Abundance of work at good wages is dependent on the purchasing power of the public. This is the most important problem in our industrial life today and can only be solved by eliminating all waste.

"Modern equipment, time and labor saving devices, together with an honest day's work by everyone, are the only means whereby we can reach the desired result.

This catalog will be sent upon request to the company at 430 East 53rd St., New York.

Some Mills Reported Busy Through- buying office equipment for one of out December.

Between two seasons the woolen and worsted trade is finding time to speculate on its next opening, scheduled in July, when it is thought by optimistic mill owners appreciable new orders will develop. Mill reprenew orders will develop. Mili representatives who have experienced only slight cancellations on the deprices, but how can this be expected whenthe mills will in a few days another wage increase? go beyond this season.

Some of the largest manufacturers of piece goods report, contrary to concellations on deliveries for spring, orders booked that will keep the mills busy until the end of December. With the usual number of orders for next season on the books amount of the best worsteds will in July, these manufacturers expect always find a market." unusual business for some time.
As to prices on future production

there seems to be only one way of viewing the matter, according to Waldosta, Ga.
manufacturers, who are cheerful in W. E. Malloy......Superintendent spite of continual grumbling about J. T. cancellations.

"Prices are going higher," says one J. of the favored group.

the largest woolen concerns in the country.

'It's my experience," he said, "to nfid everything higher than a short time ago. Paper, chairs, desks and supplies of all kinds have made notiveable advances. It seems to be

"We would gladly welcome lower E. S. GreekOutside

'Yarns have gone up on the average of 50 cents in most cases, and unless the recent break in wools has lasting effects there will be little hope in raw materials bringing prices down. However, people will have to buy cloth, and a certain

Strickland Cotton Mills.

Brooks......Carder E. Malloy..... L. Stephenson...... ... Cloth Room

Fitzgerald Cotton Mills.

Fitzgerald, Ga.
J. H. MayesSuperintendent
J. F. GreekCarder
H. F. HurtSpinner
E. L. NunneryWeaver
R. R. Dollar Cloth Room
W. B. Dorminey Master Mechanic
** ** **

Nokomis Cotton Mills.

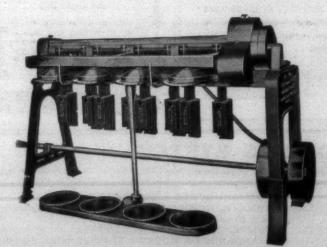
Lexington, N. C.

Lexington, 14. Ca
A Frank Bruton Superintendent
T. A. SwingCarder
T. T. GoingsSpinner
G. W. Chaney Slasher
G. W. ChaneyWeaver
Walter YarboroughCloth Room
M W Pruitt Master Mechanic

Southern Mfg. Co.

Athens, Ga.
R. S. Pond Asst Mgr
T. J. Ross Supt. Spinning
Geo. Herring Slashe
D. N. Bishop Supt. Weaving
Tom Chappell Cloth Room
A. L. Howland M. M.

SACO-LOWELL SHOPS



STANDARD DRAWING FRAME

TEXTILE MACHINERY

Complete Waste **Reworking Plants**

ROGERS W. DAVIS, Southern Agent CHARLOTTE, N. C.

ent ler

A Display of Better Efficiency

Situated in one of the best cotton mill centers of the South are several mills in close proximity to each other. So far as the mills were concerned one was about equal the other. Each had about the same number of spindles and about the same construction of building located in relatively the same natural surroundings but one of the mills bore the distinction of making more money than the others, the varn was of better quality and production was greater. There was also another noteworthy distinction about this mill. More of the people attended church than at any two of the other mills put together. Almost everyone in the village attended one of the several churches. Another very noticeable distinction was that every employee of this mill and inhabitant of the village dressed etter and looked cleaner and healthier than those of the other villages. This was made possile by clean premises and houses equipped with sewer system, baths, etc.

Have we a simple coincidence? If that is true then there should be a coincidence like this—that a group of mill employees who have not the sanitary conveniences and who do not attend church and care not for their personal appearance are better employees because their time and thoughts are devoted to their work and the spinning of better yarn. But such a coincidence cannot be found.

Or it might be argued that the prosperity of the better mill might have promoted a cleaner, healthier, more industrious populace, or that their parents had trained them so.

Or it might be explained this way, that a mill worker who is interested in his spiritual, and moral self will, other things being equal be a better worker than the man who care little for the church and who cares nothing for a bath or his personal appearance but who spends most of his spare time in loafing, fishing and gossiping.

This last explanation agrees with all observations of mill life and is also true to reason. The employer who provides for his employees a clean village, churches, good homes, plenty of clean water and a good sanitary system including baths finds that the quality of product and also production are better.

In a village so equipped the people are healthier and have a better appearance which is elevating to all those with whom they come in contact. It is also a known fact that the mill man who works not only with his muscle and brain, but with his heart and conscience is bound to display an efficiency and to be rewarded with a success which would otherwise be impossible.

SOUTHERN STATES SUPPLY CO.
Columbia, S. C.
THE CAHILL IRON WORKS
Chattanooga, Tenn.
THE LOWRY COMPANY
Atlanta, Ga.
VIRGINIA-CAROLINA SUPPLY CO.
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JOSEPH A. VOGEL COMPANY
Frost-Proof Closets
Wilmington, Del.





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IF YOUR SPINNING IS NOT PERFECT, WE CAN IMPROVE IT

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> Southern Representative: C. D. Taylor, Gaffney, S. C.

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WALKER ELECTRIC & PLUMBING CO.

Sepcialists in Cotton Mill and Village Electrical, Plumbing and Heating Installations.

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PNEUMATIC WATER SYSTEMS

Phone 516

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COTTON MILL PLUMBING AND HEATING ESTIMATES CHEERFULLY FURNISHED SALISBURY, N. C.

Belcher Heating and Plumbing Co., Inc.

Special Cotton Mill Plumbers and Steam Fitters ATLANTA, GA.

LET US ESTIMATE ON YOUR WORK

STEPHENSON CO.

Plumbers & Heaters

ATLANTA, GA.

JAS. DOAK
SPECIAL COTTON MILL PLUMBING AND HEATING
ASK FOR ESTIMATES

GREENVILLE, S. C.

E. L. STALLINGS COMPANY SPARTANBURG, S. C. PLUMBING AND HEATING

Cotton Mill and Mill Village Plumbing and Heating. Estimates Sent on Application
Bath Tubs, Lavatories, Water Closets, Sinks, Bollers, Pipe and Fittings
Low Pressure Steam and Hot Water Heating Bollers and Radiators

Puro Sanitary Drinking Fountains and Coolers Safety First Playground First Aid and Signs Stuebing Lift Trucks Stanley Imported Solid Woven Cotton Belting B. Messina's Sons-Burlap

E. S. PLAYER

Manufacturers' Agent GREENVILLE, S. C.

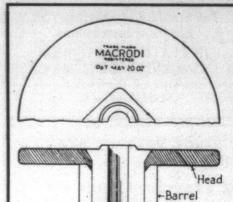
Morehead Back-to-Boller System, Condensation

Portable Machinery Co.

Portable Scoop Conveyors

Gardner Governor Co.-Pumps and Air Compressors East Jersey Pipe Co.-Hercules Hydro Extractors

Inquiries will receive our best attention



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FIBRE HEAD WARP SPOOL

after fourteen years of the hardest mill use has demonstrated that it is

Durable - Economical

Write for particulars of the added traverse with corre-sponding increase in yardage— an important feature of this

spool.

Prompt deliveries in two to three weeks after receipt of

MACRODI FIBRE CO. Woonsocket, Rhode Island

Spartanburg Rotarians Visit Pacolet County Textile Association Organ-

(Continued from Page 17.)

in Pacolet Mill village. They are under the general supervision of Miss About 500 chil-Katherine Dozier. dren attend these schools. The closing exercises were held last Friday night so the visitors were unable to have the opportunity of seeing the school in session. However, it was noted that the buildings were model school houses in every way. Twelve teachers are employed. Young ladies and young men finishing at Pacolet Mill schools are able to enter college. A splendid feature of the training here is the work in the domestic science department under the direction of Miss Belle Fuller. The luncheon the Rotarians enjoyed so much yesterday was prepared by these young women under Miss Fuller's supervision.

Upon entering the company store Mr. Montgomery told his guests to look arouund and see if they saw anything marked too high. He said that the store was not run as money-making proposition. If man could not go in it and sell goods lower than merchants who had to pay high rents, he said that man would be told quickly that he was not the man the company was looking for. The Pacolet Mill store is in charge of Mr. J. C. Thom, an Irishman of the purest type, claiming County Cork as his home. The mill store is a two-story building 225 feet in length by 50 in width. A stock valued at \$360,000 is carried. sales last month amounted to about \$31,000. Everythiug man needs from the cradle to the grave is sold.

Spend Month in Arkansas.

Jack Iler of the Keever Starch company and C. B. Iler of the Balti-more Belting Company are spending a mon at Hot Springs, Ark.

An organization known as the There are three school buildings Rutherford County Textile Association was organized at the Florence Mills Welfare House, Forest City, last week. The following officers were elected temporarily: Mr. T. B. Stevenson, superintendent Henrietta Mills, president, and Miss Virginia Graham, secretary. The purpose of the organization is to form a county wide textile association composed of mill superintendents, overseers, mill officers and welfare workers, who can meet two or three times a year, at night in different welfare houses to discuss their problems and have social evenings together. This should mean much for the textile industry of the coun-

> The following welfare workers and superintendents attended the welfare meeting at Forest City Thursday afternoon: Misses ginia Graham, Elen Erwin, —.—.
> Justice and Mesdames Guy Carswell, C. A. Ford, I. B. Covington, S. A. Summey, W. S. Moore and M. Hendrick.

The meeting was presided over by County Superintendent of Welfare R. E. Price, Mr. E. F. Carter, executive officer of the State Child Welfare Commission, Raleigh, was present and made an address on play grounds, better mill conditions such as ventilation, fire escapes, safety elevators, better health, etc. It was a very helpful address and full of good suggestions. table discussion followed Mr. Carter's address.

Tasting and delightful refreshments were served by Miss Justice, Mesdames Ford and Covington. meeting adjourned to meet again at the call of the officers, time and place to be decided by them.

B. & L. Bleachers Bluings

Bushing

SHADE TO SUIT

Manufactured by

BOSSON & LANE

Works and Office

ATLANTIC, MASS.

CAL C. WALKER

S. A. TOMPKINS

Walker-Tompkins Company

Plumbing and Heating Contractors

LET US FIGURE YOUR MILL AND VILLAGE

11 West Fifth Street

CHARLOTTE, N. C.

Textile Grinding Machinery Of All Kinds





Send in Your Old Grinders to be Repaired

Southern Agent, E. M. Terryberry, C-o Howard Bros. Mfg. Co., 1126 Healy Bldg., Atlanta, Ga.

B. S. ROY & SON CO., WORCESTER, MASS.

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NATIONAL GUM & MICA CO.

910-11 Commercial Bank Bldg.

Mikah Tallow

Swiss Gum

Combination B



CHARLOTTE, N. C. W. M. FAILOR, Manager

Factory and Works: 9th St. and 11th Ave. New York City

Humidity in General.

(Continued from page 16.) a textile nation, if such a term may be used.

Today the manufacturer selects the site most suitable to his purpose and supplies the deficiencies. He builds a spur track. He harnesses his plant to a water-power miles away, and vitalizes it by wire. He conditions the air artificially.

cotton vary in their capacities for absorbing moisture, being greatest in the case of wool and least in cot-

It naturally follows that, for a given atmospheric condition, the regain will be in the same order. On the other hand, while in the process of manufacture, cotton is the most sensitive to atmospheric changes and requires the highest relative humidity for the successful manipulation of the fibres. The other fibres fol-low in the reverse order. When it is remembered that cotton is grown in a warm climate with a mean temperature of about 75 degrees F., the careful attention that it requires will be well understood, especially if the conditions are changed by shipment to a different climate

Cotton is composed of an infiniof very close filaments, stuck or held together by waxy or gummy substances. These substances are contained in a woolly, denticulated fibrous envelope surrounding the true fibre, and they play a very important part in the process of manufacture. When cool they are quite hard, but become softer and softer every degree rise in temperature to an average of 180 degrees, at about which point they melt,

ing, although a certain amount of heat enables the process of manufacture to be carried on with ease and success.

Where the natural or turing conditions are such as to divest the cotton of its natural percentage of moisture, for successful manipulation, it is necessary that proper provision be made for re-storing to the bres their original and natural amount of heat and moisture.

Good authorities state that in the Too dry or too hot conditions order named: wool, silk, flax and cause the fibres to radiate from the centre and produce what is called 'oozy yarn."

There seems to be no doubt, then, of the necessity of proper atmos-pheric conditions. The right temerature and the right amount of humidity are needed to warm the fibre, to kill the electricity, and to prevent waste and broken ends.

The modern fire-proof mill, with its highly developed machinery, driven at such tremendously high speeds, contains much more static electricity than its small-windowed, thick walled, oil-soaked predeces-This adds to the difficulties of the manufacturer, and is direct eviin advance dence that every step brings with it, its special problem.

Tolar, Hart & Holt.

Fayetteville, N. C.

H. C. Duffer Superin	ntendent
A. Cooper	
C. M. Graddy	Spinner

Corsicana Cotton Mills.

Corsicana	, Texas.
J. H .Hook	Superintendent
J. P. Thompson	Spinner
Will Elliott	Slasher
Sam Bondurant .	Weaver
Harley Holloway .	Cloth Room
1000 11 WEST A	

LOOM-LUBRIK TWISTER RING GREASE MYCO GREASE SIZE

MYCO FLUIDO REMOVOIL

MASURY-YOUNG COMPANY
BOSTON, MASS.

Disinfectants, Spot Removers, Greases, etc.

AMERICAN TEXTILE BANDING CO., Inc.

Spindle Tape Bandings



Belfield Ave. and Wister St., Germantown, Phila., Pa

Southern Hosiery Mills

famed for the quality of their product use for Sulphur Black Dyeing

"AMALIE" SULPHO TEXTOL OIL

highly recommended for light shades as well, and can be used either direct in the dye bath or in the last rinse, or both.

"AMALIE" SULPHO TEXTOL OIL

greatly enhances the shade or color and produces a maximum degree of softness.

Send for barrel on approval with special formula.

L. Sonneborn Sons, Inc.

Textile Products Division

262 Pearl Street

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There's a Felton Brush for Every Use in The Mill



We refill Spiral top flat cylinder brushes and can give prompt service



D. D. FELTON BRUSH CO.

Manchester, N. H.

ATLANTA, GA.

THOSE STEEL ROLLS

ARE THEY GIVING YOU TROUBLE IN ANY WAY? THEN LET US OVERCOME THOSE TROUBLES.

We will re-neck, re-flute, stone, polish, hone, etc., and put in firstclass condition.

Satisfaction Guaranteed.

SOUTHERN SPINDLE & FLYER CO., Inc. Charlotte, N. C. Manufacturers, Overhaulers and Repairers of COTTON MILL MACHINERY

W. H. Monty, Pres. and Treas.

W. H. Hutchins, V.-Pres and Sect'y

BOBBINS and SPOOLS

True running warp bobbins a specialty

The Dana S. Courtney Co., Chicopee, Mass.

Southern Agent.

Greenville, S. C.

A. M. Law & Co.

SPARTANBURG, S. C.

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Dealers in Mill Stocks and other

Southern Securities.

SOUTHERN COTTON MILL STOCKS

For Week Ending June 8,	1920	
Abbarilla Catton Mille	Bid .	Asked
Abbeville Cotton Mills	420	
American Spinning Co Anderson Cotton Mills, com. Anderson Cotton Mills, pfd	99	230
Aragon Mills	300	_
Aragon Mills	175	-
Arcadia Mills Arkwright Mills	390	
Arkwright Mills Augusta Factory, Ga. Avondale Mills, Ala. Banna Mills	160	200
Banna Mills	450 158	
Beaumont Mfg. Co	400	-
Brandon Mills	260 250	_
		405
Calhoun Mills	200	345
Chiquola Mills, com	350 90	-
Clifton Mfg. Co.	- 50	400
Chesnee Mills, Com. Chiquola Mills, pfd. Clifton Mfg. Co. Clinton Cotton Mills. Columbus Mfg. Co.; Ga. Cowpens Mills D. E. Converse Co. Dallas Mfg. Co., Ala. Darlington Mfg. Co.	200 250	-
Cowpens Mills	200	150
D. E. Converse Co.	-	350 260
Darlington Mfg. Co	_	220
Drayton Mills Dunean Mills, com. Dunean Mills, pfd.	230	220 235
Dunean Mills, pfd	0.0	200
Fagle & Phenix Mills, Ga	230	-
Enterprise Mfg. Co., Ga	175	
Fagle & Phenix Mills, Ga Easley Cotton Mills Enterprise Mfg. Co., Ga Exposition Cotton Mills, Ga.	500	280
Exposition Cotton Mills, Ga. Gaffney Mfg. Co. Gainesville Cot. M., Ga. com Glenwood Mills Glenn-Lowry Mfg. Co., pfd. Gluck Mills Graniteville Mfg. Co. Greenwood Cot. Mills Grendel Mills Hamrick Mills Hartsville Cotton Mills	275	215
Glenwood Mills	350	_
Glenn-Lowry Mfg. Co., pfd	125	
Gluck Mills	200	293
Greenwood Cot. Mills	370	410
Grendel Mills	300	-
Harrick Mills Hartsville Cotton Mills	385	I
Hartsville Cotton Mills Henrietta Mills, N. C	450	051
Hermitage Mills	175 400	251
Inman Mills	500	-
Internat'l Mills com Par \$50	_	68 75
Internat'l Mills com Par \$50 \$50) Jackson Mills Judson Mills Judson Mills Judson Mills Ludson Mills Lidson Mills Laurens Cotton Mills Limestone Cot Mills Lioray Mills, N. C., com Loray Mills, N. C., 1st pfd Marlon Mfg. Co., N. C., Marlboro Mills	415	425
Judson Mills, pfd.	395 100	_
King, John P. Mfg. Co	200	-
Laurens Cotton Mills	350 310	
Limestone Cot. Mills	400	411
Loray Mills, N. C., com.		
Marion Mfg. Co., N. C	140	401
Massachusetts Mills Ca	148 168	
Mills Mfg. Co	250	
Monarch Mills	330	336
Monarch Mills Newberry Cot. Mills Ninety-Six Cotton Mills	150	435
Norris Cotton Mills	300	
Norris Cotton Mills Oconee Mills, com.	200	410
Orr Cotton Mills Pacolet Mfg. Co		412 400
Pacolet Mfg. Co., pfd. Panola Mills	100	103
Pelham Mills	150	175
Pelzer Mfg. Co	185	200
Pickens Cotton Mills Piedmont Mfg. Co.	500	580
Pledmont Mfg. Co. Poe, F. W. Mfg. Co. Poinsett Mills	355	230
Riverside Mills com.		
(Par \$12 50)		61
Sibley Mfg. Co., Ga		145
Spartan Mills com Par \$25	63	400
Toxaway Mills, com. Par \$25 Tucapau Mills	260	_
Union-Buffalo M., com	100	52 103
Union-Buffalo M., com. Union-Buffalo M., 1st pfd. Union-Buffalo M., 2nd pfd.	55	70
Victor-Monaghan Co., com	275	
Union-Buffalo M., 2nd pfd	100	-
Warren Mig. Co	100	
Watts Mills, com	120	_
Watts Mills, 18t Did		103
Whitney Mfg. Co.	295	-
Williamston Mills Woodruff Cotton Mills	375	325
Woodruff Cotton Mills, com. Woodside Cotton Mills, com. Woodside Cotton Mills, pfd.	07	390
Woodside Cotton Mills, g't'd.	. 100) —
W. S. Gray Cotton Mills	250	

Heavy Demand for Dress Goods Predicted Coming.

A scramble for dress goods in which fine serges will be most sought is predicted in the local market in a few months. Buyers are expected to return in the near future for goods, and it is said will be unable to get them from first

The smaller jobbers who were inclined to have cold feet are holding longer to some of the weaker lines they were formerly eager to sell at a loss in a dull market.

"It is time for confidence," one prominent dress goods man says.

"We are in for a very good season and can expect a run on best serges when manufacturing starts in June and July.

"The faint hearted should consider the words of Elbert Hubbard at a time like this.

"Man has a great many troubles, but most of them never happened. The coming year is going to be the most prosperous you have ver had. It is going to be the most prosperous we have ever had.

"We make these statements in spite of calamity howlers, overall brigades, panic pessimists and election year bogymen.

"To be sure, prices seem high and there is a shortage of production. But nothing will happen. That is, nothing will happen to us indivi-dually unless we all get frightened collectively."

Twisters For Sale.

For Sale-Two practically new Whitin Twisters, 2-in. ring, 3-in. gauge. Address Twister, care Southern Textile Bulletin.

Winders Wanted.

We want one or two No. 30 Foster Cone Winders, 100 spingood condition. Bearskin Cotton Mills, Monroe, N. C.

Card Grinder Wanted.

Want first class card grinder for 52 Saco-Pettee cards. Must well recommended with at least 5 years 'experience. Pay 60 cents per hour, time and one-half for overtime. Address W. M. C., care Southern Textile Bulletin.

Machinery For Sale.

For Sale—One number 6 Foster Winder, 100 spindles, suitable for eights or below to 16s yarn. Two Whitin Twisters, 176 spin-

dles (Whitin gravity), 3-in. gauge, 2-in, ring, for two-ply only Twenty-four lattice a

attachments for Nasmith Comber conveyors and 10-in. coilers. Most of them never used. Others only very little. The Foster Winder is in good condition, for winding yarn mentioned. The twisters are almost as good as new.

Apply to Kinston Cotton Mills,

Kinston, N. C.

POTATO CORN **STARCH**

Tapioca Flour Sago Flour Dextrine and Gums For SIZING and FINISHING

Oxalic Acid

STEIN, HALL & CO., Inc.

61 Broadway, New York City

Boston Philadelphia St. Louis

Providence Troy San Francisco

Chicago Cleveland Cincinnati

Why a Morse Silent Chain

The Morse silent chain is used because of its superiority based on the design of the exclusive "rocker-joint" construction, the very highest grade of material and heat treatment, the extreme accuracy in manufacturing and the engineering assistance in the designing of textile drives by engineers trained in this particular line and backed by the long standing reputation of the MORSE CHAIN COMPANY.

DO YOU KNOW about the MORSE Line Shaft Drive, The MORSE Spinning Frame Drive?

Write for Booklets

Send for INFORMATION Address Nagrest Office FACTS will Surprise You



Morse Chain

lthaca, N. Y.

ASSISTANCE PRES

CHARLOTTE, N. C., 404 Commercial Bank Building

Detroit Philadelphia Pittsburgh San Francisco

"MORSE" is the guarantee always behind our Efficiency, Durability and Service

Design.

(Continued from Page 7.) way operatives receive the best light, and furthermore, in this methit is possible to have the main trucking alley at the center of the from, which is the space farthest from the windows, and which natur-ally is the space which best serves total floor area from a trucking standpoint

Special Dye House Requirements. There are a few fundametal re

quirements for a dye house which of the utmost importance. These can be briefly stated as good drainage and convenience of location to other departments.

Mills which because of the convenience of the co

Mills which have dye houses meeting all of these requirements few and far between. Practically all old mills have dye houses located on the ground floor or in the basement. Naturally most of these do not have good daylight, many of them have no ventilation; the drainage is usually inadequate and in practically all cases these dye house locations involve a great amount of elevator service to get goods to and from other departments.

The location of a dye house in its proper place in sequence of operations, whether this be on the top floor or on next to the top floor, as the conditions may require, will eliminate much unnecessary handling of the product and will in practically all cases not only pay a large return on any investment required to get this location, but will also give many other advantages

The question of proper daylight in the dye house for washing and blaching departments is easily solved by the construction of modern concrete buildings, and in the case location overhead of the top floor light becomes easily available, so that this is very easy to take care of.

There are many possibilities in the way of locating these fans with their supply and exhaust ducts. Naturally, the more rapidly the air change is made, the more completeair ly are the steam and vapor removed from the building. In summer, due to the use of large quantities of hot water and steam ,the dye house becomes a very warm place in which work and at such periods of the year very adequate exhaust systems desirable in order that maximum oling effect may be obtained. The question of prevention of con-densation on walls and ceilings goes hand in hand with the question of ventilation and will often require special treatment, especially in climates where long cold winters are rule.

Under the heading of drainage, requirements in this case are quick and positive drainage of floors, which is of the greatest importance. Water and waste liquors must not be allowed to stand around in pools floor. The discharge from vals and tubes should be piped directly to the sewer and not be allowed to discharge openly on the floor or into gutters, because of the large amount large amount of additional steam and heat which are produced by

Remarks on Modern Knitting Mill In a concrete building it is necessary that the floors be covered with a special waterproof coating, as concrete alone is not sufficient guarantee of a tight floor. This presents no special difficulties. A desirable method of handling this construction is to have a working floor located a short distance above the concrete floor. This working floor constructed of plank with open joints. This gives operatives a dry floor on which to work and also obviates the necessary for setting machines in pits.

The modern dye house has, course, a drug storage room and a dyer's office and laboratory in connection therewith. These should be arranged opening directly into the dye house, and it goes almost withsaying that the dye house of a modern knitting mill should be located as closely as possible to the point where the goods which are to be dyed or washed are to be produced, and when the goods leave the dye house they should go directly by the shortest route to the dry oom, which should be located close

to or adjoining the dye house. Power Transmission and Electric Drive.

The use of long lines of shafting is now practically obsolete for knit-ting mills, and in most modern hosiery and underwear mills machines are driven in small groups by motors located on either floor or ceiling. In the case of machines with floor shafts the best practice is to drive each line of shaft with a single motor with chain drive, so that motors may set directly under the tables, out of the way. Individual motor drives are being supplied to the larger machines, and in many cases to individual dyeing machines, all apparently with entirely factory results, with the possible exception of underwear knitting machinery of certain types, while we understand that better results have been found by driving in relatively small groups.

Lighting the Mill.

The past few years have great strides by the manufacturers of lighting equipment, such as shades, lamps and reflectors, the average knitting mill, if it has not a modern lighting system, could well afford to consider entirely going over and modernizing the lighting layouts and equipment. Indirect lighting has been used to a great extent lately in hosiery mills, and a soft uniform light obtained by this method has proven very satisfactory. There remain, however. some departments where the application of this does not seem to give the most satisfactory results, such as in boarding rooms and some special departments.

Heating and Ventilating.

In modern knitting mills the subject of proper heating and ventilating is receiving much more consideration than formerly and the best method is the use of a combined system of heating and ventilating with a central station where all air ventilating is properly conditioned before being blown into the room. It is desirable to have this supplemented in the form of modern east iron wall radiators for the windows, and, by all hausted. means, a system of automatic tem-

located in every room. It is hopeless to expect that uniform temperatures may be obtained in work rooms by having a man go around and open and shut valves by hand.

Service Equipment.

It is hardly necessary to speak here of the very great improvements which have been made in all manufacturing plants in the way of provisions for the comfort and welfare of the employees. These take the form of lunch rooms, rest rooms, hospitals, the best toilet and wash room facilities, schools for the training of employees, etc., and while these offer no particularly difficult technical problems for the designers of modern mills, they are features which must be kept in mind in order that proper space may be provided for them at the location where needed and where they will be conveniently located for use of the employees.

Power Plants.

The power plant problem at the average knitting mill is not one as a rule requiring the generation of large quantities of power and many manufacturers may think they can well afford to purchase the small amount needed. However, the small plants almost invariably require the use of a considerable amount of steam, not only for the heating of buildings in winter, but also for the operation during all seasons of the year of the dye house, requiring large quantities of hot water and also the operation of dryers, which at all times take a large quantity of steam. Having these requirements in mind, it will be seen that the that the average knitting mill should generally arrange to generate its own power; so that exhaust steam from engines may be fully utilized in the heating of water and in the operadryers. Under these ditions the average knitting mill can usually make power at a cost well below the cost at which any central station could afford to sell the same amount of power.

Water Storage For Dye Houses.

The question is usually raised as to whether the location of dye houses in the upper story of the plant will not greatly block the provision of a suitable supply of water for this department. This may be answered by saying that if this is the case, it is necessary to provide an enclosed tank located on the roof of such a building, containing as a rule, two storage tanks, one for hot water and one for cold.

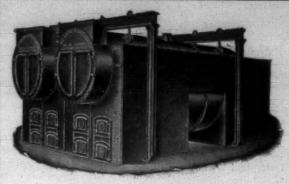
Concrete construction makes it comparatively simple to carry these heavy loads at the roof level. The use of ample storage tanks at this point makes it possible to use very small pumps for keeping the water supplied to them; in many cases the city or plant pressure will keep these tanks filled through a relatively small line. Also in such cases a water heafer located at a lower level in or near the power house may be utilized for providing a circulating system whereby the hot water in the storage tank is being continually recirculated through this heater, into which all exhaust steam from the engines may be ex-

The problems met with in the de- thinking about it.

perature control, with thermostras sign of modern knitting mills do not differ greatly from those met with in other industries, and require, generally speaking, a knowedge of the work to be done in such plants, a familiarity with the best plants of the country, and what they are doing, and the application of principles and good engineering principles and good judgment, combined, in the case of old plant extension, with some ingenuity in devising rearrangements; and finally there is required the ability to see the problem as a whole clearly and to adapt the proper relative value to the importance each department, so that the whole enterprise when completed may be well balanced and meet the requirements of the manufacturer in the best way possible in view of special conditions to be met.

> The foreging discussion briefly summarizes the more important considerations that are taken into account by modern progressive industrial engineers in designing new mills. There is a large field of op-portunity for improving older mills, which a few, or sometimes almost all of these desirable feautres are lacking. In the growth of any plant, as it takes place from year to year, the natural tendency is to take each step towards increasing production by the easiest and least expensive method. No one of these steps may depart very far from the path. But a start once having been made in the wrong direction, even if the deviation is but slight, is very apt to produce a sumulative effect, that after some years of growth results in a badly arranged, poorly dighted, unsanitary, and ugly mill, and one in which the cost of production is surprisingly larger than it should be. It is safe to say that in the majority of mills over a dozen years old, a careful study of the conditions by competent industrial engineers will disclose possibilities of increasing production, decreasing operating costs, and improving lighting and sanitary conditions, at comparatively small expense, and with little or no additional building operations. A study of the heating and power plant conditions in old mills, including the utilization of exhaust steam and condensate and hot circulating water from condensors, as well as operating methods, almost invariably discloses that large economies may be effected with comparatively small expenditures. Many mills that today are finding it difficult to meet the demands production, and whose owners hesitate at the large outlay required for new buildings with the existing high costs of building operations, neglecting opportunities to vastly improve their situation by a very modest outlay.

It has been a great pleasure for me to address a representative as-semblage from so great an industry. Much of what has been sound trite to you; but the most obvious things are the most often overlooked, and it is well for all of us to sometimes check up the things we know best in order to see that we are not unconsciously neglecting a principle that is so old and so well recognized that we have stopped



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(Continued from Page 14.) tial treatment and which is more offective than any statute could be. They deal with their own people, because they realize that the nation as a whole is vitally interested. The average American had as soon go in a German or a French ship as an American ship. You watch the Englishman. They know which side their bread is buttered on. They play the game square, it is true. But so far as the sea being prefectly free is concerned, a great many gentlemen who have gone on it have found our differently. You are perfectly free to parallel the R. F. & P. from here to Washington; but I don't notice anyone doing it. The Englishman is ahead of everyone else about 100 years in the salt water business, and their merchants who trade all over the world are entitled to the respect of everybody. Their name is a synonym for upright honorable methods. They gave aid when aid was necessary.

Now you say if we give preferential treatment they will retaliate. We want them to. In the carriage of commerce between us and Great Britain we would accord to them the same treatment as they would give to us in that trade. But we would not accord to the Norwegian the same treatment when he at-bound to protect it is ship building tempted to compete with us in the and owning, because only in that trade with England in the handling of our goods, our commerce, with England. It is quite simple. You have an automobile and I have one. We both pay a state license and we have equal privileges. But when a comes along and wants to operate under that same license, he told you will have to pay another license, on account of your business we will tax you extra. That is all it amounts to.

You say it will create hard feelings. I daresay there will be some the last year or so we have heard hard feelings created, that some hard feelings exist today. And there will be a lot more hard feelings if we do not have our marine.

We have built up our navy. We signatory on six months' notice. have built up our shipping. Is that have them with practically all counflect to be sacrificed now? Is that tries. Most of them have been alre-

money with them now-except the Emergency Fleet Corporation, I think they made \$160,000,000 and it will just about take care of their

all. But that there is a strong competitive time coming, every man which we gave a preference to ank knows that is in the manufacturing own vessels in our coastwise trade, business, and every man knows he must sell goods abroad under just countries took exception to it; took as favorable conditions as his for- exception to our doing something for eign competitor sells them under, our own commerce. The President And the only way he can do it is to favored it and Congress passed it have his own nationals represented And in the meantime the people in-

"Our Merchant Marine and Its Pos- in the carriage and sale of those sibilities." goods, and that means your our goods, and that means your own means of transportation.

Before the war many great corporations of this country bought their ships abroad. That was good business. They bought them cheaper than we could build them. That was good business—at least it looked like good business then. The war came on. They had orders for large numbers of ships abroad. They couldn't get them. They came to us shipbuilders who were still operating and said "We want ships." One of them came to us and wanted us to build 48 ships for them. We said we will build 8 for you. They asked why we could not build them 48 ships. We said the principal reason is that you have been buying your ships abroad for the past 20 years and you cannot buy them in foreign shippards now or you would still be buying them abroad, and you get 8 instead of 48 from us. And they lost more money through their inability to buy the ships they want ed, ten times the difference in cost which they had saved by Luying abroad.

There are many questions that come into this question of a marine more important than the ship question. The greatest of all free traders and one of the greatest men of this country, Thomas Jefferson, said, "If there is anything any country is way can you protect yourselves in commerce against the world." it is up to some of us to keep on reminding men that they lost during the war some millions because of the lack of a marine. A marine is necessary to a country that lives upon the ocean and expects to do business upon the ocean.

Now this commercial treaty business is the principal reason given why we could not have preferential treatment for our own vessels. much about commercial treatics What is a commercial treaty? It is a commercial convention. It may be abrogated at the pleasure of either fleet to be turned loose now practic- gated, most of them abrogated in ally naked at the present time? part, from time to time, some of Some new operators say they can them in whole. Countries have operate them. Anybody could make modified this agreement just like you and I might modify any ag cement we might have for the sale of goods. It is not any serious thing. We have not abrogated them hedepreciation account for the time cause we were afraid of hurling they have been operating. someone's feelings. There has have I do not predict any disaster at strong objection abroad to it. When we passed the Panama Canal act in we abrogated that because foreign

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terested in our own shipping cou'd better time and travel in more comget anything from Congress. We abrogate this treaty. Our treaty Great Britain permits us now our own direct trade to discrimiin favor of our own vessels.. form that discrimination will is a matter for Congress to deine, or for the Shipping Board. unless there is a preferential ment of some kind for Ameriships to enable the business to country, one established on the waters, Now with South America, one of car vast fleet that has been built up nis country will inevitably, as other fleets, pass into foreign s. It cannot be done. And the har proof of this is that it was not done for a period of 75 years. We gradually got eased out of this entire sitnation, until when the war came upon us we hadn't enough ship-builders left to build ships to carry our own soldiers. We had given it They said, You are a monopoly 110. restraint of trade; you people ve fattened on the public treashave You will understand what kind monopoly we were when I tell you that before the war there were two ship yards in this country that not gone through the Valley of Shadow of Death from one to five times, and been reorganized. It takes a shipyard about three breaks We have felt, as far to go broke. as our national operation was con-cerned, that the views of foreign ship owners have been very much ers have advertised in all newspapers, spent millions a year ,that perhaps that had something to do with it. The fear of political people to do anything that would put on its feet a national business necessary to the nation cost us three or four billions during the war, and it will cost us as much more if we have another war, unless, as some people think, we will never have another war. They have not demonstrated war. They have not demonstrated that entirely, because the world hardly seems to be through with fighting yet. The policy of listening to those to whose interest it is to have the cheapest freight and also passengers and carry the freight has blowed too long. The passenger arrying business across the Atlanis one of the most valuable of inesses. The most of the ships sinesses. built during the war were for rying freight.

pitality and because of the histhat in the Atlantic passenger ry passengers, that have suitable commodaitons, and that freight, too, are a prime necessity, those destroyed by the submarines or even more of a necessity than of Germany.

The ordinary tramp carrier. And the ships that run from Europe to South execute our will abroad, but there america today are the best equip— are a whole lot of us Americans left and the most because who think that the United States is America today are the best equip-ped and the most luxurious ships an travel best to Southampton and of commerce, one of thence to South America in a Brit- civilizing and humanizing influences ish ship. And if coming from South in the world; and we believe that America to New York, he can make the only way in which our com-

fort by going to Southampton and to New York. And your thence South American customer who gets off at Southampton can buy as cheap there. He may never reach York. They do not pass them through without making every ef-fort to stop them. These ships are a necessity in order to keep in touch with our own eustomers in a foreign

our best customers, do you know that within six years we have bought twice as much as we have sold her, and that she buys her manufactured goods mostly from Europe, and is there any reason why, with all the coffee and hats and rubber, why there should not be exchanged for products the cotton these goods manufactured in this country? Is there any prime reason why, stead of shipping abroad this cotton you gentlemen should not make it up at home and ship to our customers in the finished product?

It took us a long time in the South to find out that it did not pay very well merely to produce the raw material; that there was move to be made in manufacturing the cotton; that the man that makes some thing, the man who takes the raw material and turns it into something useful and sells it, is the useful man and his reward is proportionately great-And that is what we will do natmore potent than those of our own ionally one of these days. I do not people, and out in the Middle West see any particular reason why we where the trans-Atlantic ship own- should ship cotton all over the ionally one of these days. I do not world when we can manufacture it here just as well.

Transportation which ships, insurance, banking connections, selling arrangements—that takes years to build. No matter what happnes to our merchant marine, you gentlemen want to remem-ber that it is not possible to build it up into a great thing for a good many years. It takes time to build an organization. The fixing of our policy now will be but the start. The conditions under which we ship our goods must be settled. Some preferential may be adopted through the have the cheapest freight and also railroads; but something must be to whose interest it is to carry the done on the sea itself. We have spent millions and hundreds of millions in the improvements of our coasts and terminals. Are we building up the United States for the purpose of furnishing carriage to the ships of other nations exclusively? Didn't the war show us that a merthe reason why you came to this chant ship is no longer a merchant is not only that because of its ship in time of war but a warship ic interest of Richmond, but you every other warship? And didn't it does comfortably in Pullman show us that shipbuilding suddenly and live comfortably at hotels, became the first business of the that in the Atlantic passenger United States from being the rying business the big ships that twenty-third business? And you ry passengers, that have suitable and I wondered whether we could build them fast enough to replace

who think that the United States is that travel upon the ocean today, after all, through its example as a And if a man is going from New government and through the exam-York to Argentina or to Brazil he ple of its business men and its men



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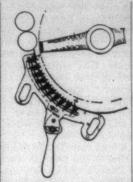
merce can be carried to the far cor- into boilers, especially with the ners of the earth is by our own Farnsworth Closed Loop Boiler people, in our own way, doing busi- Feeding System which feeds water ness in our own way, carrying our commerce in our own vehicles, and exercising our right as free Americans to do business in the proper way in any man's country without asking anybody's permission.

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(Continued from Page 10.) this is the best place to feed water

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Knit Goods

Philadelphia.-The reports which have been circulated that some knitfing mills were going to shut down not affected the market.

As yet there has been no intimation of a softening in prices on hosand the rather general opinion of knitters and selling agents is that present levels will rule firmly for next several months if not for the balance of the year. It is pointed out that many of the mills still have uncompleted orders on hand that will assure operations until that they would continue operations until that time without booking additional business. Others less forfunately situated from the standpoint of business in hand have either got to press for new orders or curtail production, and as previously mentioned, the latter is the most likely course of a majority of these knitters. Thus far production costs have not eased off the least bit and many knitters have about given up hope of being able to produce hosery for less than present costs during the next several months. Both raw materials and yarns are remaining firm at high prices and opera-lives are exacting high wages. These, of course, are the principal factors influencing high production costs and until they soften there is little hope of reducing selling levels.

Southern Knitting Mills Not Planning to Shut Down.

Spartanburg, S. C .- The managers of the knitting mills of Spartanburg county were questioned conerning a press dispatch out of Chatanooga which stated that because of labor conditions, talk of price cutting and the impracticability of producing goods for less, knitting mills of the Southern division of the National Association would have to close down when orders on hand were filled.

The managers of each of these mills stated that their plants did not confemplate closing down. They said the labor conditions were about per cent of normal, that they had igh orders on hand to run several weeks, but that they had no idea of closing down. The mills are: the Crescent, the Star, the Calton and the Blue Ridge Hosiery Mill.

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The Yarn Market

Philadelphia.--Cotton yarn quotations are quite irregular, due to the willingness of some mills to consider business, and to the readiness of some merchants to turn their yarn into cash. No sizable business is reported, as most of the trading is confined to the wire trades at the mo-ment and they are unable to pick up many spot or nearby lots.

An instance was cited where 2-50s combed yarns were quoted for prompt delivery below any price mills would consider for the same number in carded stock. Sales of 2-60s combed are reported here at \$2.50 a pound, and this is lower than

some 2.50s bought on the same day. From 8s to 16s, inclusive, carded ply skeins, prices are off a cent a pound. Twenties, two-ply, can be had at 93 cents and 24s at \$1 a pound, while 26s-2 are selling on the same basis as single carded skeins of the same count. There appears to be nobody willing to give more than \$1.25 for 30s-2 carded skeins. These counts in carded ply warps and tubes have undergone similar reces-

SOUTHERN 2-PLY 6s to 10s 75 a78 12s to 14s 80 a 2-ply 16s 91 a	2-ply 2-ply	26s1 30s1	06a1 08 25a	
2-ply 20s 95 a 2-ply 24s 105a	2-ply	5082	60a	
SOUTHERN TV	VO-PL	Y SKET	NS. 20a1 25	

10s to 12	s74 a.75	40s1 90a2 00
148	85 a	50s2 50a
		60s2 70a
208	93 a95	Upholstery
		Yarns-
26s	110a	8s, 3 & 4-ply.60 a61
88	-ply skeins	YARN. —3. 4 & 5-ply skeins— 16s ——90 a
108	75 a	20s98 a
	76 a	
6s to 12	s 76 a78	LE CHAIN WARPS
148	82 a	26s1 10a

228	***************************************	96 B	
	SOUT	THERN SINGLE	SKEINS.
68	to 8s	75 a 20s	90 a
10s		77 a 22s	93 a
128	***************************************	78 a 24s	1 02a
148		80 a26s	1 05a
16s			1 20a
		THERN FRAME	
88		73 a 20s	
108		74 a 22s	85 a
128	and and medicine	75 a 24s	92 a
148	es engineelesses	77 a 26s	93 a
16s		80 a 30s	1 00a
188	-	81 a 30s ext	ra1 08a1 10

				THE CONTRA	
				1	
128	1	18a	308	1	49a
148	1	20a	328	1	53a
168	1	22a	348	1	94a
188	1	24a	368	1	98a
208	1	27a	408	2	10a
228	1	29a	50s	3	15a
				9	

26s 1 38a

Columbus Mfg. Co.

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Weaver.

Wanted, a good man to take charge of weave room with 300 looms all on plain white work; the mill is being increased at present and will in a short time have 400 Draper looms. If you are not a weaver and a manager of help, don't answer this ad. Address S. M. T., care Southern Textile Bulletin.

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Prompt shipment common building brick, any quantity, all hard, beautiful red.

> YADKIN BRICK YARDS New London, N. C.

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Cotton Goods

in the print cloth markets and very prompt orders laid down for dress ginghams for the spring season of 1921 were the chief merchandising features of the cotton goods marlast week. Finishers of cotton goods have been advancing prices to take care of added labor costs while most of the cotton mills have made no effort to pass along the added costs that has resulted from a wage advance of 15 per cent that became effective in New England mills June 1.

In the cotton goods trade there is a steadiness not seen in the other divisions. Converters are securing very little new business on finished goods and are not placing much the business for many years are known to hold light stocks, and some of them are waiting to hear from mills that lower prices will be considered for late deliveries, especial-

of goods long due them. There is a great deal more talk about cancellations than there is actual repudiation of contracts. An effort made any future estimate of the course of this week to ascertain the exact pro- cotton goods prices. portion of vitiation of cotton goods Quotations follow: Print cloths, orders in a large house in the past 28 inch, 64x64s, 16½c; 64x60s, 15¼c; thirty days disclosed that it amounted to between 5 and 5½ per cent, and fully three-fourths of it was business obligations is readily magnified into something of great moment, especially when agents for wool mills and silk mills are ready to say that they have not lost 50 per cent of their advance business

w York.-A little steadier tone greatly toward the market in the past month. Instead of being a supplicant for merchandise of all kinds he has become a critic of values. He tries to hide the fact known to sellers that heads of houses do not want commitments made at this time that can be avoided. It is not a question of values with them but a matter of deciding what extent the general financial restrictions are going to affect legitimate merchandising.

Trade as a whole continues very quiet. The government reports on cotton indicates a sixth successive short crop at a time when manufacturers were hoping for abundance. Jobbers are not operating, most of them being anxious to receive the business with finishing plants. The many goods that are long delayed in larger concerns that have been in shipment because of transportation shipment because of transportation difficulties. Until these goods come to hand and it is known how their stocks will stand, they are advising their retail customers to supply im-mediate needs. Converters and cutclination to buy staple goods and are apprehensive of the final effect they declare they are not going to of the slump in the silk industry, the make further blind commitments hesitation in wool goods. lack of full production in mill cen-ters during the summer is a factor of uncertainty to be counted on in

Quotations follow: 381/2 inch 64x64s, 24c; brown sheetings, Southern standards, 28e; denims, 2.20's indigo, 47½c; tickings, 8 ounce, 55c; staple ginghams, 27½c; really justified. A few cases of de- 8 ounce, 55c; staple ginghams, 27%c; liberate intent to crawl away from dress ginghams, 35c to 37%c; prints,

Eva Jane Mills.

Sylacauga, Ala. through cancellations. The cases G. F. Roberts......General Supt. are not parallel, many silk and wool E. S. Dunn.......Asst. Supt. goods people regarding advance bus- B. B. Scott.........Carder

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Want Department

If you are needing men for any cosition or have second hand ma-chinery, etc., to sell the want col-umns of the Southern Textile Bulletin affords the best medium for advertising the fact.

For sale 1-Lowell Slasher single cylinder, Campwick

size kettle. -Thompkins Reels, 50 spindle adjusta^vle.

—Box Head Whitin Spin-

2-Box ning Frames.

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HUNTER MACHINERY CO. Marion, N. C.

Machinery For Sale. 1600 Draper Model E Looms 36-inch to 44-inch. Partial delivery could be made at once. 4 H. & B. Slashers.

Address P. O. Box 788, Pawtucket, R. I.

Wanted.

One Dronsfield card mounting machine. Advise price an condition. Address B. Southern Textile Bulletin.

Four Dobson & Barlow 40-inch cards in first class condition. Can be inspected in operation Price \$1,200.00 f. o. b. cars. The Tyre Cord & Fabric Co., Columbus. Ohio.

Spoolers Wanted.

Two spoolers, any make, to take a 6-inch spool, %-inch diameter spindle, gauge not less than 4%-inch. Also one second hand reel. Send description first let-ter. Adderss T. C. M., care Southern Textile Bulletin.

For Sale.

One gear cutting machine made by the D. E. Whitin Co., in good condition. Write Monroe Cotton Mills, Monroe, Ga.

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The Best Fibre Mill Equipment



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We specialize on Doffing Boxes, Roving Cans, Mill Cars, etc. Sold by Leading Southern Mill Supply Houses

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Free Service Department

Any mill in need of superintendent, overseer, second hand, loom fixer, card grinder or any class of men other than operatives may insert a notice in this column for two weeks, free of charge. If the name of the mill is not given and the answers come care Southern Textile Bulletin, the cost of stamps used in forwarding replies must be paid by the advertiser.

Wanted.

High class man for cloth room arge Carolina mill. Address large Carolina 'Cloth", care Bulletin.

Wanted.

Two or three loom fixers. Address "Fixer," care Southern Textile Bulletin.

Wanted second hand for carding; 195 cards in room; man accustomed to coarse work prefer Also want a man with good habits and good reefrences. Address Alabama, care of Textile

One good cementer or burner; 45c per hour for cementer; 40c per hour for burner. None but workers need apply. Address Lowell Roller Covering Company, Lowell, N. C.

All Wool Roller, Slasher and Clearer Cloths

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Standard Size of the South

The higher the cost of labor, and the higher the cost of raw materials, the more essential it becomes to have the Slasher-Room on an efficient basis. We cheerfully furnish to all interested our Slasher Efficiency Test Blanks.

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Eleven Thousand Spindle Equipment for Ctmb Yarn.

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WANTED

Man who is thoroughly competent of handling large room of Slashers, Tie-in Machines and two Draw-in Machines. Seven Dollars Per Day. References required. Men who are now overseers weaving are eligible for this position. Address Cotton Mill, care of Southern Textile Bulletin.

SOUTHERN TEXTILE BULLETIN

EMPLOYMENT BUREAU

The fee for joining our employment bureau for three months is \$2.00 which will also cover the cost of carrying a small advertisement for one month. If the applicant is a subscriber to the southern Textile Bulletin and his subscription is paid up to the date of his joining the employment bureau the above fee is only \$1.00.

During the three months' membership we send the applicant notices of all vacancies in the position which he desires. We do not guarantee to place every man who joins our employment bureau, but we do give them the best service is any employment bureau connected with

- WANT position as overseer spinning by young man. Can furnish good reference from all former employers; have been on present job as overseer spinning five years, but would change for larger job. Experienced on numbers from 3's to 26's warp and hosiery yarn. Address No. 2678.
- WANT position as overseer of spinning. Have had eighteen years experience on all grades of cotton yarns, Am 34 years of age. Married and can furnish refer-ence. Address No. 2679.
- WANT position as superintendent of yarn mill of from 4,000 to 15,000 spin dles. Have had 15 years experience a carder and spinner on fine and coars yarns and can give good reference from present employer. Address No. 2680.
- WANT position as overseer of carding in North Carolina or Virginia on white or colored work. Thirty-four years old and can give good reference. Address No. 2681.
- WANT position as superintendent of spinning mill by man with experience on most all kinds of yarns and can fur-nish excellent reference. Address No. 2682,
- WANT position as superintendent yarn or weave mill of 10,000 spindles more. Now employed as superinten ent and can furnish reference as character and ability. Address: N 2683.
- WANT position as superintendent or carder in large mill. Now giving satisfaction as superintendent of two mills in different cities and on account of having to be away from family would like to make change. Address No. 2684.
- WANT position as superintendent, preferably in North Carolina. Must pay at least \$3,500 a year to begin. Have never been superintendent but thoroughly understand operation of mill and can back up statements with doing. Can get production. Address No. 2685.
- WANT position as overseer of carding in large mill or carding and spinning in medium size mill. Can furnish good reference. Address No. 2686.
- WANT position as superintendent on white or colored work or overseer of large weave room. Have been superintendent for 20 years and can furnish best of reference. Address No. 2687.
- WANT position as superintendent manager of cotton mill in Piedm Carolina. Can furnish reference. dress No. 2688.
- ANT position as overseer of spinning. Now employed as overseer of spinning and twisting and can furnish best of reference. Address No. 2689.
- ANT position as superintendent overseer of carding in large mill. furnish reference as to ability character. Address No. 2690.
- ANT position as overseer of carding by experienced mill man now employed but want larger job. Address No. 2692
- VANT position as superintendent or overseer of spinning if salary is large enough. Resigned former place on account of health but now fully recovered and ready to come promptly. Good reference as to character and ability. Address No. 2693.
- WANT position superintendent of mill of from 10,000 to 30,000 spindles. Experienced on hosiery yarns and can furnish excellent references. Address No. 2695.
- WANT position as carder at not less than \$50 per week. Age 33. Christian. Carring up to date in methods and can

- furnish references and will prove abil-ity if given trial. Address No. 2896.
- WANT position as superintendent practical carder and spinner carder. Just finished correspond course on weaving. Address No.
- WANT position as overseer of spinning.
 Now employed but want large room.
 Experienced on long and snort staple,
 Inte and coarse yarn, married. Good
 manager of help and can turnish reference. Address No. 2698.
- WANT position as overseer of spinning or superintendent of small yarn min. can lurnish references as to character and ability. Address No. 2700.
- WANT position as overseer of weaving by good man with 31 years experience in mil, 12 as overseer. Prefer white work on Draper looms. Address No. 2702.
- WAN'T position as overseer of carding in North Carolina mil. Can turnish good references as to character and ability. Address No. 2703.
- ANT position as overseer of weaving on Draper looms running sheetings and. Have had 12 years experience in weave room. Now second hand in large mil. Can furnish good reference. Address No. 219a.
- WANT position as superintendent of yarn min of overseer of carding an spunning in large mill. Now employee as superintendent of small mill but wisto make change. 28 years old. reference. Aggress No. 2706.
- WANT position as overseer of weavir by man with long experience on duck drills, twills, and sheeting. Is year experience on Draper looms. Marrie 39 years of age, and strictly sober. No employed as overseer but for persona reasons would like change. Address No. 2707.
- WANT position as overseer of weaving Have worked in mill for 27 years and have had 25 years experience as over-seer and fixer. Can furnish best o reference. Address No. 2708.
- ANT position as overseer of card room by a hustler who can get results. Would take road job on good mill specialty Address No. 2709.
- WANT position as overseer of carding and spinning. Can furnish reference it wanted. Now employed as night spin-ner but want day work. Address
- WANT position as master mechanic in good mill. Excellent references. Ad-dress No. 2711.
- WANT position as overseer of cloth room by man with 10 years experience. Would not consider less than \$35 per week. Address No. 2712.
- WANT position as superintendent good mill. Long experience and confurnish reference. Address No. 2713.
- WANT position as overseer carding by man with long experience on white and colored work. Married man 36 years old. Have had 15 years experience in card room. Strictly sober. Am holding position as overseer in card room at present. No cause for change except want better job. Can give good reference if wanted. Address 2714.
- WANT position as overseer of weave room. Good reference as to character and ability. Address No. 2716.
- WANT position as assistant superin-tendent or spinner or carder in large mill. Now employed but would like to change. Address No. 2719.
- WANT position as overseer of weaving by married man, age 40. Have been working in weave room for 25 years, 7 years as overseer. Experience on all kinds of looms. Now overseer but want larger room. Address No. 2720.
- WANT position as overseer of spinning in medium size mill. Married, 26 years old, 6 years experiences as sec-ond hand and night overseer on Nos. from 20s to 100s. Want day job. Ad-dress No. 2721.
- WANT position as superintendent of large mill. Have had long experience on all kinds of work and can give aatisfaction. Address No. 2722.
- WANT position as bookkeeper for cotton mill. Experienced double entry book keeper and general office man. Good

- reference as to character and ability Address No. 2723.
- WANT position as superintendent or overseer of spinning in large mill. Have good record and can furnish reference. Address No. 2724.
- WANT position as overseer of weaveroom. Good reference as to character and ability. Address No. 2725.
- WANT position as overseer of weaving or second hand in large room with pros-pects of something better. Prefer good Draper loom job. 23 years practical ex-perience. Address No. 2726.
- WANT position as overseer of card root by man with 14 years experience a overseer. Good manager of help Must be large room or would take superintendents job. Can make chang quick. Present location is only reason fro change. Address 2727.
- WANT position as superintendent spinning mill or splain weave to Long experience on both carded comped yarn. kreferense from and present employers. Add No. 2728. Address
- WANT position as superintendent or overseer of spinning in large mil. 3s years old, married, 12 years as overseer, Bes of reference. Address No. 2729.
- WANT position as chief engineer of mas-ter mechanic or both. Thoroughly ex-perienced on steam, electric and water, 18 years practical experience and years in college, Address No. 2730.
- WANT position as superintendent of yarm mid or overseer of carding. Would consider new mill and take some stock in same. Address No. 2781.
- WANT position as superintendent man with long practical experience good character. Can produce goods. Address No. 2732.
- WANT position as superintendent man with experience on all kinds work. Good manager, Can furni best of reference, Address No. 2733.
- WANT position as overseer of carding in large mill, or carding and spinning in medium size mill or superintendent of small mill that pays fair salary. At present overseer of carding. Good reasons for change. Address No. 2734.
- WANT position as superintendent of yarn mill anywhere in South that needs a hustler that can hold help and get results. Now overseer of carding and spinning. Age 35. Address No. 2735.
- WANT position as superintendent of yarn mill. Have had experience on various kinds of work and am thoroughly competent. Can hold help and know what production is and can get it. Address No. 2738.
- WANT position as master mechanic and electrician. Experienced in all kinds of shop work and power. Good reference. Address No. 2739.
- WANT position as earder or spinner in large mill or carder and spinner in small mill. Address No. 2740.
 WANT position as overseer of carding by man with experience and ability to get production. Good reference. Address No. 2741.
- WANT position as superintendent of ing. Now employed but want to get on combed and carded yarns and weav-ing. No wemployed but want to get back in Carolinas. Address No. 2742.
- WANT position as carder in large or carder and spinner in small Good reference as to character ability. Address No. 2743.
- WANT position as overseer of spinning.
 Married, 33 years old. Good manager
 of help and a hustler for production.
 Can get good help and hold it. Address
 No. 2744.
- WANT position as superintendent of weaving or yarn mill, or overseer of carding in large mill. Have been overseer of carding for some time but resigned for good reasons and have referecence from all employers. Can come at once. Address No. 2745.
- WANT position with progressive mill that has good village and doing welfare work. Now office man doing work from making out pay rolls to financial reports. Have sister who is experienced welfare worker. Would like to locate in Carolinas with large n I I bepose. Good references as to character

- both of us in our respective lines. Willing workers and can give satisfaction and service. Address No. 2746.
- WANT position as electrical graduate, 15 years experience installing, operating, testing, inspecting, maintenance and repair of switchboards, generators, motors, speed controllers, etc., selecting electrical equipment, handle labor, all kind wiring work for light and power service. Desire responsible position as electrical engineer, electrical all kind wring work for light and power service. Desire responsible posi-tion as electrical engineer, electrical supt. or chief electrical. Married, age 36 years. Employed, but available on short notice. State salary for man competent to take complete charge of electrical department. Address No. 2748.
- ANT position as overseer of carding or spinning in large mill or both in small mill or superintendent. Energetic young man with experience in two or three large mills. Good reference, Ad-dress No. 2747.
- WANT position as assistant superintendent or assistant manager of cotton mill. Have high technical education in textile manufacture and valuable experience in a managerial capacity. Address No. 2749.
- WANT position as overseer of weaving or superintendent. Reference as to character and ability. Address No. 2750.
- ANT position as superintendent of good mill by man now employed, and giving satisfaction but for good rea-sons wish to make change. Address No. 2751. WANT
- WANT position as superintendent or overseer of spinning in good mill in Carolinas or Virginia. Now employed as superintendent in far Southern mill and want to get back near home on account of health. Good reference. Address No. 2752.
- WANT position as superintendent of me-dium size mill. Now employed but wish to change for good reasons. Can furnish reference if wanted. Address No. 2753.
- WANT position as assistant superintendent of large mill or manager or superintendent of small mill. Long practical experience and graduate of Ga. Tech of 1911. References from past employers. Address No. 2754.
- WANT position of superintendent of either yarn or weaving mill. 39 years of age Experienced on 8s to 80s. Combed and carded yarns. Can furnish best reference. Now employed would like to correspond with parties needing a good man. Address No. 2756.
- WANT position as pay-roll clerk in large textile mill by a young man. Married. With five years practical experience, thoroughly conversant with production records of varied sizes of hank-roving and yarns, can operate a comptometer. Address No. 2757.
- WANT position as superintendent of small or medium size yarn mill. I have sixteen years experience as overseer of carding and spinning, twisting, winding, ruling, etc., and have eight years experience as superintendent. I would consider an overseers position. Am experienced on coarse and fine numbers, on white and colored yarns. Can furnish best of reference as to character and ability. I am 46 years old and have a family. Address No. 2758.
- WANT position as overseer of weaving in good mill. Now employed and giving satisfaction but want larger room. Address No. 2759.
- WANT position as overseer of weaving.

 Now employed and getting over 100%
 production with less than 1% seconds.

 Want larger job and can furnish best of reference. Address No. 2760.
- vANT position as superintendent of either yarn or plain weaving mill or as carder and spinner. Am now employed and giving satisfaction and have had long experience on both carding and spinning. Good references. O dress No. 2761.
- WANT position as overseer of spinning in 30,000 or 40,000 spindle mill. Have had 12 years experience as overseer. 35 years of age, married and can fur-nish best of reference. Address No. 2762.
- WANT position as superintendent, over-seer of carding or spinning or both Address No. 2775.

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